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1958

SEED ANNUAL

SEED  
MERCHANTS

# Grand Rapids Growers, Inc.

401-433 Ionia Ave., S. W.

GRAND RAPIDS, MICH.





# Forcing Varieties

## The Most Dependable Seed for Greenhouse Crops

These varieties are used in all parts of the country by the best and largest growers in the business. If you are not familiar with these varieties, give us a trial order and get acquainted with their merits. Below we give you a partial description, with the complete text found in the pages of this catalog. We have appreciated a nice business on our forcing varieties and an order from you will be filled on the same day it is received.



### RADISH

**GRAND RAPIDS FORCING.** New Improved. The best greenhouse variety and the earliest of the Scarlet Globe type, and superior in every way for greenhouse forcing. With the shortest top. Full description will be found on page 25.

Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, not postpaid.



### LETTUCE

**GRAND RAPIDS FORCING.** (Washington Strain.) A splendid forcing strain. Color a light green, heads very heavy; leaf crisp, tender and curly; quality of the best. Complete description will be found on page 17.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

## HYBRID TOMATOES

### "Just a Little More of Everything"

Two important Hybrid Tomatoes bred and grown by Roy H. Burghart and introduced to the trade as a better and more vigorous Tomato that is more resistant to wilt and disease. They are ideal greenhouse varieties, and have been grown in all of the leading Tomato sections of this country for the past several years.

**SPARTAN HYBRID** is a cross between Michigan State Forcing and Copper's Special. Globular in shape, medium size, weight 5 to 6 ounces, about three to the pound, growing in clusters of six to eight. A meaty Tomato, small seed cavity.

**NORTHERN HYBRID** is a cross between Michigan State Forcing and Sutton's Best Of All and is an ideal greenhouse hybrid for NORTHERN growing, especially in Canada and northern United States including Alaska. It is more vigorous growing, particularly in dark fall and winter weather which is prevalent in the North. It is not as large as Spartan Hybrid, 4 to 5 ounces of solid fruit, in clusters of ten to twelve. Color red, globular in shape.

**MICHIGAN-OHIO HYBRID.** A new F1 Tomato for greenhouse production. It is a cross of Michigan State Forcing and WR3, and has proved to be far superior to any other cross so far produced. It is wilt-resistant. The seed supply is ample this year for the first time in its history, and the demand has been ever increasing. Full details will be found on page 33.

All three of these hybrids are put up in sealed packets. 50 seeds, \$1.50; 100 seeds, \$2.00; 250 seeds, \$3.00; 500 seeds, \$6.00; 1000 seeds, \$10.00; ¼ oz., \$15.00; ½ oz., \$27.50; 1 oz., \$50.00, postpaid.

### MICHIGAN STATE FORCING

An excellent greenhouse variety and a vigorous grower with dark green foliage. Especially attractive medium size fruits (4 to 5 ounces) are borne in clusters of five to eleven. Stem cavity is small, shallow and very smooth. A variety of proven merit, has been grown for many years in greenhouse forcing.

Oz., \$1.10; ¼ lb., \$3.50; 1 lb., \$11.00.



Michigan  
State  
Forcing



**PLEASE USE THIS ORDER SHEET**

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

**ORDER SHEET — Continued**[illegible]

**SPECIAL NOTICE:** As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

[illegible]



# Important

By Carefully Following These Suggestions, Many Mistakes Will Be Avoided

## Order Blanks

Order blanks have been inserted in this catalog for your convenience. Please use them. Fill in your NAME, POST OFFICE, SHIPPING POINT or nearest EXPRESS OFFICE, your COUNTY and STATE, as this is as important in the prompt filling of your order as the order itself. Write plainly and avoid mistakes. Additional order blanks are mailed with every order. If you do not receive them, please notify us, and we will be glad to furnish them.

## Terms

We will ask that you please send your remittance with your order. ON ALL ORDERS OF VEGETABLE AND FLOWER SEEDS except PEAS, BEANS and CORN, amounting to \$5.00 or more, we will allow a

10% cash discount. This discount does not apply on bulbs, special offer collections, plants or any other item listed in this catalog, as these are NET CASH as quoted.

This offer is good only in the United States, and while we do not think there will be any serious changes, ALL PRICES QUOTED ARE SUBJECT TO CHANGE WITHOUT NOTICE, Michigan State Sales Tax will be charged on orders for home gardeners or wherever applicable.

## How to Send Money

Remittance should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, BANK DRAFT or CERTIFIED CHECK. It is perfectly safe and your order will be assured of prompt handling. U. S. CURRENCY and U. S. POSTAGE STAMPS for small amounts are acceptable but in this case the letter should be REGISTERED.

## Canadian Customers (Notice)

We are very thankful for the business you have given us in the past and we will continue to give you our very best of service and quality seeds.

Please take special notice that we cannot make C. O. D. shipments to any part of Canada and cannot pay postage on any items in this catalog.

## Non Warranty

We give no warranty, express or implied, as to the productiveness of any seeds or bulbs we sell and we will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seed.

## Small Orders

We value small orders and they receive the same careful attention and prompt mailing. On vegetable seeds the minimum unit is 10c pkts. and in flower seeds the minimum unit is a 15c pkt. On seed orders less than \$1.00 please add postage for first class mail delivery at the rate of 3c per ounce of mailing weight. If items weigh 1 pound or more, refer to the parcel post mailing chart found on this page.

## Large Quantities

Parties buying large quantities of any one variety of seed will be quoted special prices on application.

## Price of Seeds By Weight

We will supply HALF POUNDS and over at the pound rate; less than half pound lots are charged at the quarter pound and ounce rate.

## Safe Delivery

All seeds and supplies sent out by us are fully insured and we guarantee their safe arrival. If they are damaged, notify us immediately.

## Postpaid Prices (Important)

Postage is prepaid on certain items of vegetable and flower seeds, but we would call our customer's attention to the exceptions as they may be noted on those items that the postage is to be paid by the purchaser, and in all cases, please add to the order the amount of postage, with your cash remittance. Your postal delivery service will advise you as to your "zone" and you can then refer to the table of rates below for your respective charges.

In figuring the amount of postage needed, be sure to figure for the packing required, as 1 lb. ordered cannot be mailed for 1 pound but must take the 2-lb. rate, and on larger amounts 2 or 3 pounds must be figured, on account of the total packed weight on which the postage would apply, but any money you send us in addition, that is not needed, will be promptly refunded when your order is filled.

## Air Mail

On RUSH ORDERS received by air mail, wire or telephone for one ounce or more of seed, we will send by air mail if so requested at a normal charge of 6c per ounce of seed ordered, not exceeding 8 ounces, as the postal rate is 6c per each ounce. One ounce of seed would weigh more than one ounce when it is packed ready to mail. Where the mailing weight is less than one ounce we will pay the postage. On larger quantities the schedule is:

Zones 1 and 2	Per Pound Mailing Weight	Additional Pounds
3	60c	48c
4	60c	48c
5	65c	50c
6	70c	56c
7	75c	64c
8	75c	72c
	80c	80c

This will give you overnight service to almost any point in the continental U. S.

## Parcel Post Mailing Instructions

No. 1.—SEEDS. Maximum weight on SEEDS is 70 lbs. to any post office in the United States. Orders over 70 lbs. can be mailed as two separate units. To determine the correct postage cost, allow one pound extra weight for packing and package to the net weight of seeds ordered. For instance: if your total order amounts to 10 lbs. multiply this by 4c, the figure for the second zone in the second column, which added to the charge in column one of 23c would make the postage 63c which is correct for 11 lbs. of mailing weight.

No. 2.—MISCELLANEOUS SUPPLIES. The length and girth of any package is limited to 72 inches maximum, and the maximum weight is 40 lbs. in the second zone, and 20 lbs. maximum in the third to eighth zones except to second class post offices or on the rural route of any post office, where the maximum would be 70 lbs. It might be cheaper to send bulky and heavy packages by express beyond the third zone.

Approximate Domestic Parcel Post Rates on seeds and miscellaneous supplies within the U. S. and possessions.

	First Pound or Fraction	Each Additional Pound or Fraction
Local—within Grand Rapids or its rural routes	18c	2c
1st and 2nd Zones—within 150 miles	23c	4c
3rd Zone—within 150 to 300 miles	23c	5c
4th Zone—within 300 to 600 miles	24c	7c
5th Zone—within 600 to 1000 miles	26c	10c
6th Zone—within 1000 to 1400 miles	28c	12c
7th Zone—within 1400 to 1800 miles	30c	15c
8th Zone—all over 1800 miles	32c	18c

NOTE. A fraction of a cent in the total amount of postage on any parcel is counted as a full cent.

CANADA: All parts 45c per lb.; 22c for each additional pound. If in doubt about the rate of postage, consult your local postmaster.

# Grand Rapids Growers, Inc.

## Seed Merchants

Cor. Wealthy and Ionia Ave., S.W.  
Phone: 97216

Grand Rapids, Mich.



## Asparagus

**CULTURAL DIRECTIONS.** One-half ounce of seed will sow 50 feet of drill and produce about 500 plants. Drill the seed thinly in rows about 24 inches apart, covering seed 1 inch. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following spring. Permanent beds, before planting, should receive an application of 1000-1500 pounds complete commercial fertilizer. On established beds apply 400-600 pounds complete fertilizer each spring plus 200-300 pounds ammonium nitrate at the end of the cutting season. Do not cut until third year, limit cutting to middle of June. Remember, the bed well planted will last for at least 20 years. Treat it well.

Asparagus beetle can be controlled by dusting with 1% rotenone. Rotenone is most effective when the temperature is at least 70° F.

★**MARY WASHINGTON RUST-RESISTANT ASPARAGUS.** The largest and most tender green Asparagus. This is a decided improvement due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Suitable for quick freezing.

Prices: Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.



Mary Washington Asparagus

Unrivalled  
Wax Beans

## Asparagus Roots

We have the Mary Washington Rust-Resistant Asparagus roots, every spring, and as we handle only the very best 2-year roots, that are locally grown, we will ask that you write us for prices in whatever quantity you may want.

## Beans

Due to the increase in postage rates, BEANS are not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

**CULTURAL DIRECTIONS.** One pound to 100 feet of drill; about one bushel per acre of Bush Beans. Beans thrive on a rich, warm, light soil. It is not safe to plant until about the middle of May, as the seed will rot in cold, wet ground and plants will not stand frost. Plant dwarf Beans in rows 2 feet apart and from 2 to 3 inches apart in the row. Cover to depth of 1-2 inches. Lima Beans should not be planted until June first, when the soil is thoroughly warmed through. Limas will rot in cold ground.

Mexican Bean beetle can be controlled by dusting with 1% rotenone or pyrocyde No. 10.

## Wax Podded Varieties

★**PENCIL POD BLACK WAX.** Pods are round, very long, tender and entirely stringless. Extremely productive. Best market gardeners sort. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**CHEROKEE WAX.** (Valentine Wax). 50 days. Developed from an original selection made by Dr. W. C. Barnes, of South Carolina. The plant is large and erect. Pods golden wax, measuring 6½ inches long, oval, nearly straight, stringless at all stages, tender and of good quality. The most prolific wax podded variety, equal in yield to the best green podded types. Seeds 80 per ounce.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**GOLDEN WAX.** (Top Notch). 52 days. An excellent early home garden variety. Pods clear golden yellow, broad, flat-oval, fleshy, brittle and stringless. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**KINGHORN SPECIAL WAX.** 55 days. A highly productive and dependable variety that gardeners want because of its excellent quality. It is white-seeded and has long, round pods of golden yellow color. Very productive.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**UNRIVALED WAX BEANS.** 53 days. Small plant, very early and great yielder. Pods about 5½ inches long, somewhat curved, semi-flat, fleshy and very tender and stringless. Color pale yellow.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**ROUND POD KIDNEY WAX.** 58 days. Most generally used as a wax Bean for canning and commercial freezing. Stringless, nearly fibre free, pods make an ideal pack for cut or whole Beans. Color light yellow. 6 inches long.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.



Pencil Pod Black Wax

Prices on larger quantities of the Bean varieties listed above will be quoted on request.



## Green Podded Varieties

**WADE.** 55 days. Plant medium large, resistant to common Bean mosaic and one or more forms of powdery mildew. Pods round, and of distinctive appearance, medium green and very glabrous or smooth, almost as if waxed. Length of pod 5¼ inches and ¾ inch width.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**CONTENDER.** 54 days. A green-podded variety. Developed by the U. S. D. A. The plant is vigorous, resistant to common Bean mosaic and partly so to powdery mildew. Pods, thick, oval, and a little larger than Stringless Black Valentine, but not usually as straight or of the same quality. Pods 7¼ inches long, ½ inch wide. Adaptable for home garden as well as shipping.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**STRINGLESS GREEN POD (Landreth).** 53 days. An improvement of Burpee's Stringless Green Pod. Vine is more erect, with darker foliage and a longer, slimmer pod. Pods 6 to 8 inches long, slightly curved, meaty, and absolutely stringless. Undoubtedly the best round-podded Bean on the market today. Very prolific and an ideal variety for home garden, market gardeners and canners. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**BOUNTIFUL.** 48 days. Best of the flat-podded varieties. Pods 6½-7 inches long, thick, flat and slightly curved. Stringless and of fine quality; color light green. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**TENDERGREEN.** 54 days. A new introduction, and now one of the most popular green Beans. Hardy; dependable cropper, medium large, dark green and stringless. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**BLACK VALENTINE.** 52 days. A round-podded, stringless shipping and market variety. Pods 6 to 6½ inches long, dark green, slightly curved. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**TENDERBEST.** 54 days. A worthy successor to Tendergreen. High resistance to common Bean mosaic and N. Y. 15 mosaic. Resistant to root rot allows good crops in dry seasons. Upright, dark green plants hold pods high off ground. Pods are unusually straight and smooth.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**REFUGEE or 1000 TO 1.** 70 days. A very productive, hardy, vigorous late sort. Pods 5 to 5½ inches long, somewhat slender, round and slightly curved, almost stringless and of good quality; color light green. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**KENTUCKY WONDER or OLD HOMESTEAD.** 65 days. The most popular green-podded, climbing Bean; early and productive. Pods 8 to 9 inches long, very slender. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

**DUTCH CASE KNIFE.** (Snijboonen). 65 days. McCaslan pole Bean. Green snap pods, 7 to 8 inches, straight, flat, brittle, of good quality; best as a shell Bean. Beans very flat, ivory-white.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**TOP CROP.** 48 days. A new important addition to the Tendergreen class. Early and productive, stringless, resistant to common Bean Mosaic, medium green, pods 6 inches long by ¾ in. wide, round. Excellent for shipping, market as well as canning and freezing.

Not postpaid: Lb., 60c; 10 lbs., \$5.50.

**BLUE LAKE STRINGLESS.** 58 days. Resistant to common Bean mosaic and genetically stringless. Straight, smooth pods about 5¼ to 5½ in. long, dark green and the pods are borne from base to top of plant. A wonderful canner, and suitable for quick freezing.

Not postpaid: Lb., 60c; 10 lbs., \$5.50.

## Lima Beans Pole Variety

**KING OF THE GARDEN LIMA.** 88 days. An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide and uniformly four seeded.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

### Dwarf or Bush Varieties

**BURPEE'S IMPROVED BUSH LIMA.** 75 days. Both Beans and pods are larger than the old type. The pods measure 5 to 6 inches long by 1¼ inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. Suitable for quick freezing.

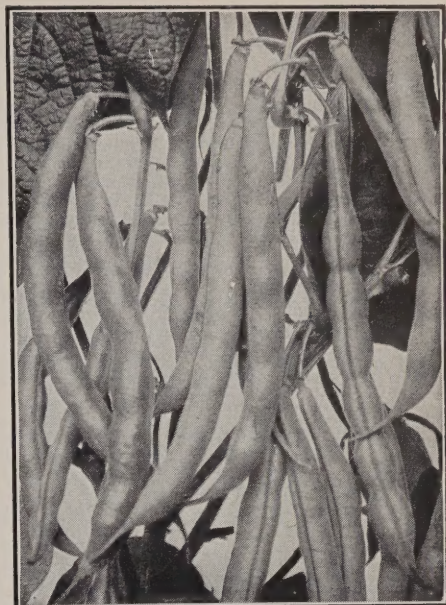
Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**FORDHOOK BUSH LIMA No. 242.** U. S. D. A. 75 days. A most excellent variety and exceedingly popular with market gardeners. Pods are about 5 inches long, containing 4 to 5 large, oval-shaped, very thick, white Beans. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

★**HENDERSON BUSH LIMA.** Thorogreen Green Cotyledon. (Baby Lima.) 65 days. A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat, white Beans. Suitable for quick freezing.

Not postpaid: Lb., 50c; 10 lbs., \$4.50.

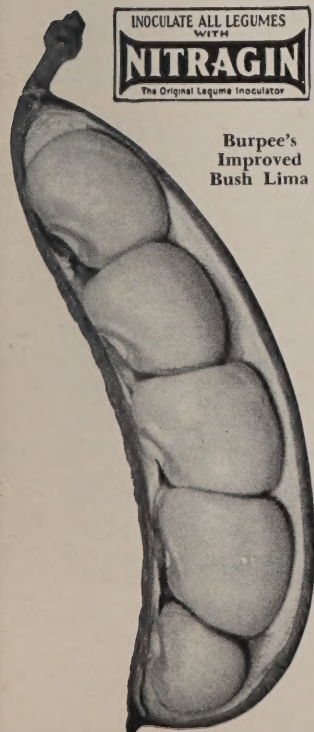


Stringless Green Pod (Landreth)

Postage will be extra. Refer to rates on page 3.



Burpee's  
Improved  
Bush Lima



Prices on larger quantities of the Bean varieties listed above will be quoted on request.



## Beets

**CULTURAL DIRECTIONS.** One ounce to 50 feet of drill; 6 to 8 pounds per acre. Beets prefer a well-prepared friable soil. Plant from  $\frac{1}{2}$  inch to  $\frac{3}{4}$  inch deep, according to the texture of soil. For an early crop sow in drills 1 foot apart as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to 3 inches apart in the row. Beets can be sown as late as July for main crop. A complete commercial fertilizer high in phosphorus and potash applied as a band alongside the row is recommended. Care should be used that the seed does not come in immediate contact with the fertilizer.

**EARLY WONDER or EARLY BLOOD TURNIP IMPROVED.** 55 days. An early variety. It is Turnip-shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching.  
Oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.25, postpaid.

**★DETROIT DARK RED.** (Morse's Strain.) 55 days. The best for market gardens or home use. Roots smooth, medium size, globe-shaped; skin dark red; flesh solid vermilion-red. Tops small, upright, dark green, shaded red.

Oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.25, postpaid.

**GREEN TOP BUNCHING.** 60 days. Early, extremely attractive bunching Beet. Tops medium sized and erect. Foliage clean, grayish green that does not turn red or brown in the fall. Roots round, smooth and glossy, flesh bright blood-red. Mostly grown for Beet greens.

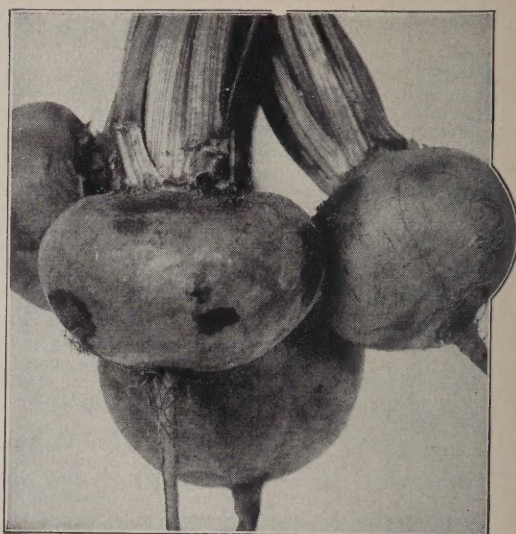
Oz., 20c;  $\frac{1}{4}$  lb., 50c; lb., \$1.25, postpaid.

## Sugar Beet

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for winter feed. They are also excellent for poultry.

**GIANT FEEDING SUGAR.** 120-150 days. A most valuable, large yielding variety for feeding; half sugar, oval-shaped, skin rose colored, flesh white, very nutritious and easily harvested.

Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.



Detroit Dark Red (Morse's Strain)

## Mangel or Stock Beets

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill, five pounds per acre. Sow early in the spring, in rows about 2 feet apart; cover seed  $1\frac{1}{2}$  inches deep, pressing ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

**MAMMOTH LONG RED.** 120-150 days. A favorite with the dairyman and farmer. Large, well-formed; dark red color, very nutritious; a big cropper.

Oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

**GOLDEN TANKARD.** (Yellow Eckendorf). 120-150 days. Very productive and sweet; tops and neck very small; flesh yellow; especially relished by cows and sheep.

Oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00, postpaid.

"SWISS CHARD" is listed on page 10.

## Broccoli

A frequent application of nitrate of soda or other nitrogen fertilizer can be of great value to promote the life of this crop.

Worms on Broccoli can be controlled with 1% rotenone dusts; aphids or plant lice with nicotine sulphate or Evergreen Garden Spray.

**ITALIAN GREEN SPROUTING.** 75 days. This variety produces a large head, like Cauliflower, consisting of a compact cluster of bluish green flowers. When the central head is removed, the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served as Cauliflower. Suitable for quick freezing. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

**GRAND CENTRAL.** 75 days. A new variety in the medium group, but it differs from the medium in maturity being a week to 10 days earlier, has a shorter, less leafy plant with the central heads more visible or less hidden by leaves. The central head is unusually heavy and dense. The bud or head type and color are satisfactory and the frozen product is rated high. Grand Central is of interest because of its high yield and uniform maturity, allowing harvest to be completed in four instead of the usual 6 cuttings.

Oz., 90c;  $\frac{1}{4}$  lb., \$2.75; 1 lb., \$8.00, postpaid.

**GREEN MOUNTAIN.** 60 days. Bred to meet the needs of market growers and freezers, this new extra early sprouting Broccoli is also excellent for home gardens. Produces large, compact, dark green center heads. Buds are tight and attractive. Long flower stems separate easily for freezing and heads mature uniformly. Oz., 60c;  $\frac{1}{4}$  lb., \$1.80; lb., \$5.50, postpaid.



Italian  
Green  
Sprouting  
Broccoli

★This variety recommended by Michigan State University.





Imperator  
Carrots

★**CHANTENAY, RED-CORED.** 70 days. This is a distinct improvement over the well known standard Chantenay, especially in color, texture and quality of flesh. Roots  $5\frac{1}{2}$  to 6 inches long,  $2\frac{1}{4}$  inches thick at the shoulder; tapered stump root. Flesh and core reddish orange, fine grained and tender. A favorite with canners, market gardeners and shippers. Suitable for quick freezing.

Oz., 20c;  $\frac{1}{4}$  lb., 55c; 1 lb., \$1.75; 10 lbs., \$16.00, postpaid.

**CHANTENAY, LONG TYPE.** 70 days. A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer but fully as large; stump rooted at maturity. Texture and color equal to Red-Cored Chantenay. Suitable for bunching or bushel use. Suitable for quick freezing.

Oz., 20c;  $\frac{1}{4}$  lb., 55c; 1 lb., \$1.75; 10 lbs., \$16.00, postpaid.

**TOUCHON.** 68 days. A quality Carrot for home and market garden. Tops medium height and strong. Roots orange-scarlet,  $6\frac{1}{2}$ - $7\frac{1}{2}$  inches long;  $1\frac{1}{4}$ - $1\frac{1}{2}$  inches thick; straight, cylindrical, strictly stump-rooted. Flesh deep orange with inconspicuous core. Similar to Nantes but preferred by some for greater length and stronger top. Suitable for quick freezing.

Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.00, postpaid.

★**MORSE'S BUNCHING.** 77 days. Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are  $1\frac{1}{4}$  to  $1\frac{1}{2}$  by 8 inches in size, almost cylindrical with rounded shoulders, and are well stumped.

Oz., 25c;  $\frac{1}{4}$  lb., 75c; 1 lb., \$2.25; 10 lbs., \$21.50, postpaid.

## Carrots

**CULTURAL DIRECTIONS.** Carrots require about the same simple care as Beets; they have no serious insect enemies, and they are rarely attacked by disease. It is best to plant them in soil that is friable and richly fertilized. Plant the seed one-half inch deep in loose, well-prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as the plants are well established and thin to 2 or 4 inches in row, according to size of the variety. Plantings may be made from early spring until mid-June. For winter storage the later date is advisable.

★**NANTES CORELESS, STRONG TOP.** 68 days. A very superior Carrot. Coreless, brittle, fine grained, of fine, mild, sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical, and very stump-rooted. Suitable for quick freezing.

Oz., 25c;  $\frac{1}{4}$  lb., 70c; 1 lb., \$2.25; 10 lbs., \$21.50, postpaid.

**SUPREME HALF LONG.** 75 days. Resembles a small refined Danvers with short tops. Roots 6 to 7 inches long, about 2 inches in diameter at shoulder, tapering to a half stump. Exterior smooth and of excellent color. Interior flesh tender, sweet and of fine flavor. Core small and the same dark red as the rest of the flesh.

Oz., 30c;  $\frac{1}{4}$  lb., 95c; 1 lb., \$2.75, postpaid.

**IMPERATOR.** (Long type). 77 days. Selected strain, specially developed for bunching. Top medium height, abundant and strong for good bunching. Roots long, slender, smooth and uniformly tapered. Flesh rich orange color.

Oz., 30c;  $\frac{1}{4}$  lb., 95c; 1 lb., \$2.50, postpaid.

★**STREAMLINER.** 77 days. An ideal new bunching Carrot for shippers and market gardeners. Tops short, rather sparse, dark green and strong. Roots long, slender, nearly cylindrical, 8 to 10 inches long, and they grow completely underground.

Oz., 30c;  $\frac{1}{4}$  lb., 95c; 1 lb., \$2.75, postpaid.

**GOLD SPIKE.** The finest shipping variety of the Long Type Imperator. The top is 4 inches shorter with more erect leaves, having thick petioles firmly attached. The tops are compact, coarsely cut and dark green. Roots are ideal for shipping, 8 to 10 inches long,  $\frac{7}{8}$  to  $1\frac{1}{8}$  inches in diameter. The skin is smoother than Imperator with a deeper and more attractive color. We believe this variety will replace the Imperator Long Type as it is far superior.

Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.25; 10 lbs. \$30.00, postpaid.

**GOLD PAK.** 77 days. Has long, very uniform roots, with short, dark green tops. Roots remain in good condition in fields for a long time without becoming coarse and overgrown. Tops are strongly attached.  $8\frac{1}{2}$  to 10 inches long at maturity. Color: exterior, deep orange; interior, bright reddish orange. Cores are small and indistinct. Excellent for bunching and cello-pack.

Oz., 40c;  $\frac{1}{4}$  lb., \$1.20; 1 lb., \$3.50, postpaid.  
10-lb. lots, \$34.00.



Supreme Half Long Carrots

**OXHEART or GUERANDE.** 72 days. Very short, thick and stubby. Very desirable for heavy clay soil, as it is easily harvested.

Oz., 25c;  $\frac{1}{4}$  lb., 65c; 1 lb., \$1.95, postpaid.



## Cabbage

**CULTURAL DIRECTIONS.** Five to eight ounces of seed will produce enough plants for an acre. Two to three pounds will be needed for direct seeding. For early Cabbage sow in hotbeds in January or February. Transplant as early as possible to the open ground spacing about two feet apart each way. For late Cabbage, sow in open ground in May and transplant about July first in rows 2½ feet apart. Thin plants in the rows to 15-18 inches apart.

In fertilizing we recommend 800-1000 pounds per acre of a complete commercial fertilizer broadcast or 500-800 pounds side-dressed. In the home garden broadcast 30-40 pounds per 1000 square feet of complete commercial fertilizer.

Most insects on Cabbage and related crops can be controlled by dusting with rotenone; aphids with nicotine sulphate or Evergreen Garden Spray. Aphids are most easily killed when the temperature is at least 70° F.

### Early Varieties

★**GOLDEN ACRE.** 64 days. Heads round, very hard. Matures two to three weeks earlier than Copenhagen Market, but is otherwise quite similar. Owing to earliness and remarkable uniformity, will prove the most profitable early Cabbage for market gardeners.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

**EARLY JERSEY WAKEFIELD.** 62 days. Market gardeners in general consider this the best early variety. Conical heads are uniform in shape, very solid. Our stock is dwarf, compact and extremely early.

Oz., 45c; ¼ lb., \$1.35, 1 lb., \$4.00, postpaid.

**IMPROVED COPENHAGEN MARKET.** 65 days. Nearly as early as Jersey Wakefield. Stems short, heads large, round and solid, few outer leaves.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

### Late Varieties

**FERRY'S HOLLANDER.** 100 days. Decidedly the best variety of late Cabbage. Heads become firm while still rather small. They reach good marketable size in 90 to 100 days, but continue to enlarge, maturing in about 120 days. Plants medium small, allowing closer planting, short stem, erect and compact. Extremely hardy, splendid quality and keeps perfectly in storage until late spring. Decidedly the best variety for muck growing.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.



Danish Ballhead



Golden Acre Cabbage

**GREEN ACRE.** 66 days. A comparatively new strain with general characteristics of Golden Acre, but holds its green color longer, an added value to market gardeners and shippers.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

**FERRY'S ROUND DUTCH.** 71 days. Splendid for home and market garden. Plants small and compact; stem short. Heads almost ball-shaped; commonly 7 to 8 inches in diameter, 6 inches deep, and weigh 4½ to 5 lbs.; firm and of fair quality.

Oz., 40c; ¼ lb., \$1.00, 1 lb., \$3.00, postpaid.

**MAMMOTH ROCK RED.** 90 days. Heads solid, of good size and quality.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**PENN STATE BALLHEAD.** 100 days. A heavy yielding strain of the short stem Danish Ballhead type. Originated by Pennsylvania State College. Yields as high as 26 tons per acre have been recorded.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

★**BONANZA.** 75 days. Almost round, very firm and uniform. The shortest core of any Cabbage we know, making it extremely slow to produce seeders. Can be harvested early as it makes a firm head, but can also be held until later. Heads slow to split. Ideal for shipping, as well as market.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**DANISH BALLHEAD.** 95 days. Short-stemmed, heads round, very solid and heavy. Splendid keepers, hardy, and the best winter sort. Not recommended for muck growing.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

**PREMIUM FLAT DUTCH.** 105 days. Highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender.

Oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

**AMERICAN SAVOY.** (Chieftain). 85 days. Large, flattish heads, very curly and hard. One of the best Savoy.

Oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

**RED STONEHEAD.** 80 days. An exceptionally good variety forming round heads, smooth, hard, of a glowing red color. A good keeper.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.



## Cabbage

### Yellows-Disease Resistant Varieties

**JERSEY QUEEN.** 62 days. A selection from Jersey Wakefield which has a conical head, but is slightly darker green.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

**RACINE MARKET.** 70 days. Plant 10-12 inches tall, compact, short-stemmed, upright, distinct blue-green leaves with erect growth. Head 6½ inches in diameter, round, solid and of good quality. A yellows-resistant Copenhagen Market type. Extremely uniform and is popular with home and market gardeners as well as shippers.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

**RESISTANT GOLDEN ACRE.** 63 days. Yellows resistant.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★**WISCONSIN HOLLANDER No. 8.** (Yellows-resistant). 90-100 days. A heavy yielding late storage type, highly resistant to yellows. Round head, and yields greater tonnage than ordinary strains.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

★**MARION MARKET.** 75 days. A yellows-resistant strain of Copenhagen Market. Round head and crisp tenderness of the parent Cabbage. Principally adapted on yellows infested soil, where non-resistant strains fail completely.

Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.



Greenback Cabbage

**GREENBACK.** Yellows Resistant.) 74 days. A new Cabbage in the Round Dutch class about as early as Marion Market, but darker green and more compact. Vigorous and short-stemmed. Slow to produce seed stalks. Especially recommended for market and shipping in areas infected by yellows.

Oz., 65c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

**BADGER MARKET.** 67 days. Plant 9-10 inches tall, dark blue-green, cup-shaped leaves. Heads 5-6 inches in diameter, weigh 3 lbs.; round with a solid interior. Developed by the Wisconsin College of Agriculture. A good small-headed early variety.

Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.50, postpaid.

## Brussels Sprouts

The culture is the same as for Cabbage which it resembles, the edible part being the small heads, an inch or two in diameter, that form at each leaf joint all the way up the stalk. The leaves should be broken off in the fall to give more room for the little heads to grow. Control aphids with nicotine sulphate or Evergreen garden spray. Delicious and more tender than any Cabbage. 90 days. Suitable to quick freezing. Half dwarf.

Oz., \$1.00; ¼ lb., \$2.75; 1 lb., \$8.50, postpaid.

Celery Cabbage (See page 10)

## Cauliflower

**CULTURAL DIRECTIONS.** One ounce of seed will produce 4000 plants. Five ounces of seed to an acre. Directions about the same as Cabbage, except planting in rows about 3 feet apart and 18 inches apart in the row. When plants begin to head, tie leaves up around the heads to protect from the sun.

**EARLY SELECT SNOWBALL.** 55 days. A very fine strain of early Cauliflower. Plants of medium height with rather waved or crumpled leaves which bend outward at the tips. Inner leaves cover the head well. Foliage is medium green. Heads of good depth, solid, ivory-white and of fine quality. Early and very even at time of maturity, requiring prompt handling. Adapted for summer and early fall harvest.

Oz., \$2.00; ¼ lb., \$6.00; 1 lb., \$18.00, postpaid.

★**GROWERS SPECIAL IMPROVED.** 60 days. Well adapted for use under a wide range of conditions and generally considered the most satisfactory main crop strain for fall harvest. Plants are large and erect with ample foliage for head coverage. Leaves are long, rather straight, plain edged and medium bright green color. The heads are large, smooth, very deep, very solid and pure white. Unexcelled for quality. About a week slower reaching maturity and the harvest is not so concentrated.

Oz., \$2.00; ¼ lb., \$6.00;  
1 lb., \$18.00, postpaid.

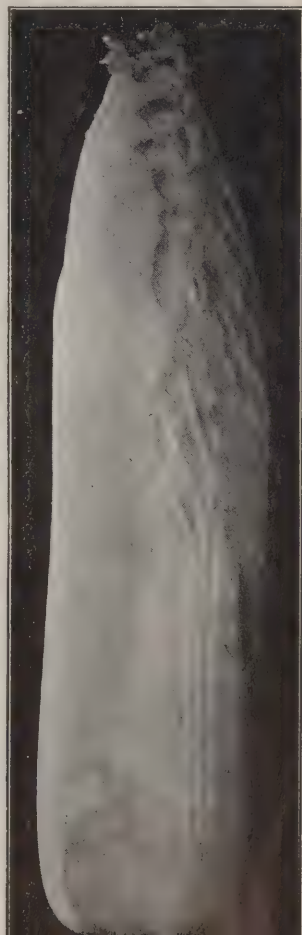
Our cultural directions are the special recommendation of our growers who through actual experience know what is necessary for the successful growing of a crop, and give it to you for your guidance.



Brussels Sprouts



Early Select Snowball Cauliflower





## Celery Cabbage

**CULTURAL DIRECTIONS.** One ounce will produce 2000 plants. Do not sow seed till the last of May, earlier sowing generally going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned.

**MICHIHLI.** 70 days. A new strain of Celery Cabbage. In habit of plant it resembles Chihili, but the growth is more vigorous. The leaves are dark green and do not have the yellowish cast of Chihili. The leaf margins are waved and the individual plants are very uniform. It is surer heading, and in trial plantings made on a commercial scale it has produced 99% marketable heads.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**CHIHILI.** 70 days. Imported from Holland. This is the true strain. It has a delicate flavor, much milder than Cabbage. The heads are long, about 16 inches, rather slim, coming to a point at the top. Color is very dark bluish green, with the inner leaves and stalks blanched to a beautiful snow-white. This past season it proved its place and is highly recommended as a true strain.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

## Swiss Chard

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer, and if given a little protection during the winter, will produce early greens in the spring.

**LUCULLUS.** 55 days. Leaves large and curly. Plant grows about 2 feet high, midribs are very broad and are a good substitute for Asparagus during the summer months.

Oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**NEW RHUBARB.** A Chard of unique crimson color. Stalks sweet and succulent. Bright red in color; leaves green to bronze, heavily veined with red. Plants are vigorous and will yield a tremendous crop throughout the summer and fall, until frost.

Oz., 30c; ¼ lb., \$1.00; lb., \$3.00, postpaid.



Swiss Chard



Michigan Golden Celery

## Celery

### Yellows-Resistant Varieties Michigan Golden

Full hearted, stalk very uniform. About 24 inches tall, 8-10 inches to the joint. Very tender.

Michigan Golden was developed by plant pathologists of Michigan State University and the breeding work is continuing under their supervision. All genuine Michigan Golden seed is grown under their control, packeted at the university and sold only in the original seed containers.

Prices: 2 ozs., \$3.50; ¼ lb., \$5.50;  
1 lb., \$22.00, postpaid.

#### MICHIGAN GOLDEN



#### YELLOWS-RESISTANT SELF-BLANCHING CELERY

An improved strain of the original Michigan Golden variety bred by plant pathologists of Michigan State College for resistance to Fusarium yellows and introduced by Grand Rapids Growers' Inc.

GENUINE MICHIGAN GOLDEN SEED IS SOLD ONLY IN  
PACKETS BEARING THE SEAL OF MICHIGAN  
STATE COLLEGE

Michigan Golden is highly resistant to Fusarium yellows, also known as root rot, crown rot, stunt or sickness. It is not resistant to other celery diseases and seed treatment together with the use of protective dusts or sprays must be relied upon to control leaf blights.

In any inquiry concerning this seed inclose this label and address your communication to

MICHIGAN STATE COLLEGE  
DEPARTMENT OF BOTANY AND PLANT PATHOLOGY  
EAST LANSING, MICHIGAN

No warranty, expressed or implied, is given as to description, productiveness or purity of this seed and we can not be in any way responsible for the crop. If the purchaser does not accept these terms the seed should be returned immediately and money will be refunded.

G

Serial No.



## Celery

### Yellows Resistant Varieties

**CULTURAL DIRECTIONS.** One ounce will produce from 5,000 to 10,000 plants, two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer, but as muck soils are usually well supplied with an abundance of nitrogenous matter, a fertilizer high in phosphate and potash usually gives the best results.

Sow seed in rows in the greenhouse or cold frame. When 3 to 6 inches high transplant to the field, spacing yellow varieties 4 inches apart in the row, Pascal varieties 6 inches. Avoid prolonged chilling of young plants to reduce tendency to bolt seedstalks. Nitrogen side-dressing is beneficial on both yellow and green varieties, particularly on green.

**CORNELL No. 19.** 100 days. We offer the true strain of this excellent variety. 10½ to 11 inches to joint with an overall length of 24 to 25 inches. Hearts long and comparatively full. Stems thick, round and of smooth texture. Combines the good qualities of the Pascal type and is highly resistant to fusarium yellows. We have a limited stock of this variety.

**Oz., \$1.50; ¼ lb., \$4.50; 1 lb., \$16.00, postpaid.**

**CORNELL 6,19.** Has been developed by Cornell University and this variety combines the best features of the old Cornell 6 and the Cornell 19.

**Oz., \$1.35; ¼ lb., \$4.00; lb., \$14.00, postpaid.**

**JERSEY GOLDEN PLUME.** Taller type. It is an excellent variety for early planting, showing some resistance to soil diseases. On account of the great care taken in selecting and roguing we know there is none better. The ribs are from 7 to 8 inches to the first joint, according to growing conditions and the height is about 26 to 28 inches.

**Oz., \$1.75; ¼ lb., \$6.50; lb., \$24.00, postpaid.**



Cornell No. 19

### Standard Yellow Varieties

**NEW GOLDEN SELF BLANCHING.** 85 days. This is the most popular of Celeries. It has a long stalk and is commonly called "Tall Strain" American grown.

**Oz., \$1.00; ¼ lb., \$3.50; lb., \$12.00, postpaid.**

**GOLDEN PLUME NO. 4162.** (New strain.) Our improved strain fills the need for a taller, long-stemmed Golden Plume. Retains earliness and ease of blanching of the original strain, but is more compact in form, straighter, and much better adapted to the standard crate. Normally 24 to 26 inches tall, with stems 7½ to 8½ inches and a full heart.

**Oz., \$1.00; ¼ lb., \$3.50; lb., \$12.00, postpaid.**

**TALL NON-BOLTING GOLDEN PLUME.** This is a strain that grows taller and faster than the original types. Its ability to withstand low temperatures without bolting make it the most satisfactory of the Golden Plume strains for growing under certain unfavorable conditions. 8½ to 9 inches to joint; 26 to 27 inches over-all height.

**Oz., \$1.35; ¼ lb., \$4.25; lb., \$15.00, postpaid.**

**EARLY FORTUNE (Improved Golden).** This variety has been developed by Abbott and Cobb and is exactly the same family as Special 763. The only difference is that the rib is medium length instead of the longer rib found in No. 763. To those wishing a medium rib, we suggest this stock for storage. This variety shows considerable resistance to fusarium yellows and soil diseases in the early crop in many areas.

**Oz., \$1.50; ¼ lb., \$5.50; lb., \$20.00, postpaid.**

**SPECIAL No. 763.** This variety comes from the Early Fortune. It is a long rib sort with a rich golden heart. In making the rib longer, we have been able to get a good, uniform strain of Celery. The vitality is exceptionally strong, having a cross of green. This is another one of Abbott and Cobb's strain, and this also shows resistance to soil diseases for early planting.

**Oz., \$1.50; ¼ lb., \$5.50; lb., \$20.00, postpaid.**

### Choice Market Garden Varieties

#### Green Varieties

★**GROWERS EARLIGREEN.** Compact in habit of growth. The outer leaves are green and the very full heart is pure white, brittle and of most delicious flavor. Recommended for trenching.

**Oz., \$1.75; ¼ lb., \$6.75; lb., \$24.00, postpaid.**

**PARAGON.** The plant is dwarf, vigorous, quite hardy, and has a very full heart. Stalks broad, quite thick, very solid and tender, bleaching readily to a golden yellow color. Winter keeper.

**Oz., \$2.25; ¼ lb., \$7.50; lb., \$26.00, postpaid.**



## Pascal and Utah Strains

**SUMMER PASCAL 259-19.** 120 days. This new vigorous Summer Pascal type is finding favor with market growers and shippers. Plants slightly taller than regular Summer Pascal with darker colored leaves. Produces uniformly large sizes with good rib count, compact growth with thick, rounded, edible stalks 9-10 inches in length. Has good green color and the stalks are smooth and attractive. Excellent quality.

Oz., \$3.50; ¼ lb., \$13.00; lb., \$48.00, **postpaid.**

**UTAH 16-11.** A recent development, replacing Utah 16 and extensively used for fall and winter harvest. Plants are tall, with good heart development. Foliage dark green. Stalks rounded, thick and of good length. Quality holds well after reaching cutting stage. Has shown considerable tolerance to frost when mature.

Oz., \$1.50; ¼ lb., \$4.50; lb., \$16.00, **postpaid.**

**UTAH No. 15.** A strain of Utah (California Pascal) of midseason maturity. Plants are large, height 26 to 28 inches. Leaves are dark green, deeply cut, moderately broad. Plants are erect, compact, full hearted. Edible stems are usually 8 to 10 inches long, are numerous, of medium width, thick, rounded and quite smooth, crisp and of fine quality.

Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, **postpaid.**

**TALL UTAH, No. 52-10 B.** Plants are tall, 26 to 28 inches, leaves moderately large, medium dark green. Plants are erect and compact. Stems are 8 to 10½ inches long, noticeably of uniform length, rounded, thick, waxy in appearance.

Oz., \$1.50; ¼ lb., \$4.50; lb., \$16.00, **postpaid.**

**UTAH 52-70.** About 135 days. A slightly larger Utah than Tall Utah 10 B and darker leaved. Over-all height 28 to 29 inches. Ribs 9½ to 11 inches, rounded, thick, smooth and medium dark green. Makes large size, high hearts and is very compact and tightly shingled.

Oz., \$1.75; ¼ lb., \$6.75; 1 lb., \$24.00, **postpaid.**

**UTAH 52-70 H.** A tall Utah selection with a longer rib and higher rib count than Utah 52-70. Plants slightly taller and ribs ½ to 1 inch longer than 52-70. Useful where vigor and size are required to meet market demands.

Oz., \$2.50; ¼ lb., \$7.50; lb., \$30.00, **postpaid.**

**IMPROVED UTAH JUMBO.** This new strain has thicker, more meaty stalks with longer stems. The mature plant is larger around and taller than Utah Jumbo.

Oz., \$1.60; ¼ lb., \$5.00; lb., \$18.00, **postpaid.**

**CELERIAC.** Large Smooth Prague. 110 days. Turnip rooted Celery.

Oz., 75c; ¼ lb., \$2.35; lb., \$7.00, **postpaid.**



Utah 52-70

We can supply every combination of dust or spray material in Niagara Brand of insecticides and fungicides for Celery protection. Prices quoted as requested.



Utah No. 15



## Sweet Corn

Due to the increase in postage rates, SWEET CORN is not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

**CULTURAL DIRECTIONS.** One pound for 200 hills or 400-600 feet of drilled row, about 10-12 pounds per acre. Early Corn is planted in rows  $2\frac{1}{2}$  to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for table 8 or 9 weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills 3 to 4 feet apart. It will be ready for use in from 10 to 12 weeks from date of planting. Side-dressing with 100 pounds ammonium nitrate or other nitrogen fertilizer as Corn is tasseling is recommended. Plant 3 or 4 rows of Corn in a block to get good pollination and the best filled ears. Seed saved from Hybrid Corn is of no value since it will not come true to type the second year. Use only fresh one-year-old Corn seed.

Corn borer can be controlled by dusting with 3 or 5% DDT starting when Corn is just under knee high and making 4 applications at weekly intervals.

### Open - Pollinated

★**GOLDEN "SUNSHINE."** 74 days. A valuable yellow variety for the market grower or the private gardener. It is a cross between the Golden Bantam and Gill's Early Market and combines the earliness and large size of ear of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to 10 days earlier than Golden Bantam, and has a much larger ear; the ears average  $8\frac{1}{2}$  inches long, with 12 to 14 rows.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

**IMPROVED GOLDEN BANTAM.** 85 days. Superior to the original Golden Bantam in quality, and has larger ear. It matures about the same time. Nearly all ears carry 12 rows of deep, rich golden yellow kernels, set close upon the cob. It is a favorite with the market gardener.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

★**STOWELL'S EVERGREEN.** 90 days. Most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners. Ears of good size, grain deep; tender and sugary.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

★**GOLDEN BANTAM.** 79 days. Hardy, early maturing, very dwarf. Cob is small but fills out nicely with large, deep cream-colored kernels, which turn yellow when ripe. No home gardens should be without this excellent Corn.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

**GOLDEN EVERGREEN.** 95 days. This new variety combines all the good qualities of Golden Bantam and Stowell's Evergreen. Has the bright golden color and tender kernels of Golden Bantam and the flavor and sweetness of Stowell's Evergreen. Ears much larger than Bantam, not quite as large as Evergreen, but much earlier. Stalks are full leaved and usually bear two well developed ears.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

**COUNTRY GENTLEMAN.** (White or Shoe Peg Corn). 90 days. An especially fine quality Corn; without row formation.

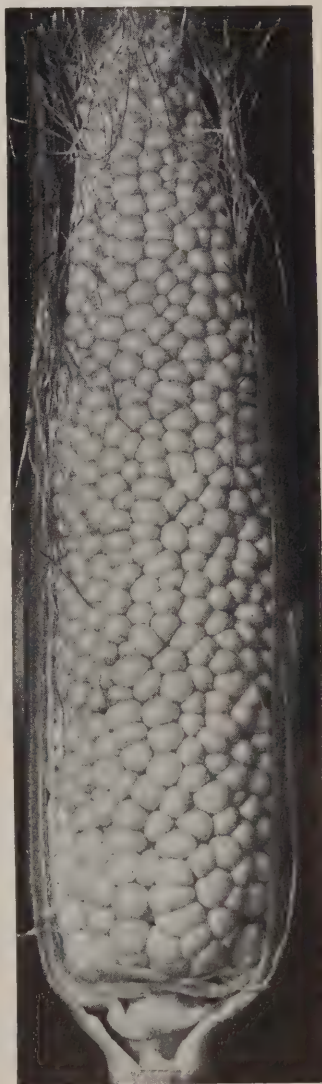
Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

**EARLY EVERGREEN.** 90 days. Has all the merits of the Stowell's Evergreen. This is a white Corn. It is a splendid variety for the market gardener.

Not postpaid: Lb., 35c; 10 lbs., \$3.25;  
25 lbs., \$7.00; 50 lbs., \$13.00.

**BLACK MEXICAN.** 83 days. Reputed to be the sweetest and most delicious of all table Corn. Color is white when young, changing to bluish black in later stages.

Not postpaid: Lb., 40c; 10 lbs., \$3.50;  
25 lbs., \$7.75; 50 lbs., \$15.00.



Country Gentleman



## Sweet Corn - Hybrids

A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of Corn or their combinations.



Hybrid Sweet Corn

**SENECA 60 HYBRID.** Sold out.

**SENECA DAYBREAK.** 60 days. A larger ear than Seneca 60 which is not available this year, and is equally as early. Offers excellent market appearance, and the eating quality is better than most early market hybrids. Seneca Daybreak is outstanding over all other hybrids in its cold resistance and seedling growth.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**GOLD CREST.** 67 days. Stalks are sturdy, about 5 feet tall, and highly tolerant of Stewart's Wilt. Ears average 7½ to 8 inches long and are mostly 12-rowed. This is the best extra early Sweet Corn, and has been developed for market, shipping and home gardens.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**GOLD RUSH.** 67 days. This is the one. A first early yellow hybrid for the early market with the strong hybrid vigor and productiveness. Stalks 6 ft. tall. Ears 8½ inches, 12 to 14 rowed, slightly tapered, well filled to tip. Most attractive yellow; tight husk. Tender, sweet, fine quality and flavor.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**GOLD STAR.** 68 days. An earlier Corn than Gold Rush, well adapted for market and home use. Stalks 6½ ft. tall, elongated in appearance with medium dark green foliage. Ears 7½ inches, 12-14 rowed, cylindrical, bright golden color, medium deep and medium broad. Very good flavored.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**SPANCROSS C13.3.** 70 days. One of the best early hybrids. Highly resistant to bacterial wilt. Well tipped, small ears of 10 to 12 rows. Kernels golden yellow, sweet and tender.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**MARCCROSS C13x6.** 72 days. This has proved a good early market and home garden variety. Stalks short but sturdy, highly resistant to Stewart's disease. Ears long, plump, abruptly tapered at the tips, 10 to 14-rowed with light cream-yellow, medium broad kernels of good quality.

Not postpaid: Lb., 60c; 10 lbs., \$5.00; 25 lbs., \$11.50; 100 lbs., \$42.00.

**CARMELCROSS.** 79 days. A second early hybrid developed by the Connecticut Experiment Station, New Haven. Vigorous and heavy yielding in comparison to its earliness. Medium sized gently tapering ears with 12-14 rows of yellow kernels.

Not postpaid: Lb., 60c; 10 lbs., \$5.00; 25 lbs., \$11.50; 100 lbs., \$42.00.

**GOLDEN CROSS BANTAM.** 85 days. Excellent for market gardens and well adapted for canners' use. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, with exceptionally broad, dark green leaves. Ears 10 to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. Suitable for quick freezing.

Not postpaid: Lb., 60c; 10 lbs., \$5.00; 25 lbs., \$11.50; 100 lbs., \$42.00.

**IOANA HYBRID.** (All-America Selection.) 87 days. A midseason yellow hybrid, highly resistant to both drought and wilt. Plants tall and sturdy with broad, numerous leaves. Ears 7½ to 8 inches long, 12 to 14 rows, cylindrical, well filled with medium narrow light yellow kernels. An attractive and productive variety for either gardener or canner. Suitable for quick freezing.

Not postpaid: Lb., 60c; 10 lbs., \$5.00; 25 lbs., \$11.50; 100 lbs., \$42.00.

**IOCHIEF.** 89 days. 435-5125. Outstanding among recent introductions for longer ears, heavy tonnage and superior flavor. A main cropper, ideal for canning and market. Kernels golden, deep and uniform. Height of stalk, 6¾ ft. Ears 9 inches long. 14-18 count.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**FOREMOST E. E. No. 1.** Hybrid. Extra early. 66 days. Ears 8 inches long, slightly tapered. Kernels bright golden yellow. 12 to 14-rowed. Plants 5 feet tall, strong, vigorous. Husk and flag leaves, heavy, good color. Yield unusually high for such an early Corn. The attractive ears, good uniform size, have market and table appeal. Tender and sweet.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

**FOREMOST Y-1.** This variety has quickly become popular for fresh market, canning and freezing. Its large, uniform, high quality ears give it an unusually attractive appearance. As compared to Golden Cross Bantam it is earlier, superior in yield, fully equal in quality and has the ability to remain in top condition longer.

Not postpaid: Lb., 60c; 10 lbs., \$5.40; 25 lbs., \$12.00; 100 lbs., \$45.00.

## Pop Corn

**AUSTRALIAN HULLLESS HYBRID.** Dwarf growing; heavy yielder of attractive ears; peculiar form, being nearly as thick as long. Color pearly white. Entirely hullless, making it the tenderest of any Pop Corn when popped.

Not postpaid: Lb., 65c; 5 lbs., \$3.00.

**MINNHYBRID No. 250.** Developed by the Minnesota Experiment Station from Japanese Hullless over which it showed a marked improvement in yield equivalent to about 15% more per acre with 25 to 30% greater expansion of popping which gives increased tenderness; kernels are white.

Not postpaid: Lb., 65c; 5 lbs., \$3.00.

**SOUTH AMERICAN YELLOW.** 110 days. Sunburst. Better adapted for Michigan climate. It matures about 2 weeks earlier than the true type South American yellow. Amber color, large size when popped, having a butter-colored tint.

Not postpaid: Lb., 40c; 5 lbs., \$1.75.

★Please Refer to Page 3 for Postal Rates.





## Table and Pickling Cucumbers



**CULTURAL DIRECTIONS.** One ounce of seed to 50 hills; 2 pounds per acre. Cucumbers should not be planted until the ground is warm, about June 1st. For pickles, they may be planted as late as July 1st. They require a warm, rich, sandy soil. Plant in hills about 4 feet apart and about 8 seeds to the hill. When all danger from insects is past, thin to 3 or 4 of the strongest plants. Broadcast 500-600 pounds complete commercial fertilizer before planting.

Cucumber beetle—either No. 10 pyroclide dust or methoxychlor is the control measure to keep your Cucumbers clean. Apply promptly and grow your Cucumbers without any trouble.

**IMPROVED LONG GREEN.** 68 days. A standard late, well-known table sort, 12 to 14 inches long, slender, more or less warted, tapering towards the stem end, color dark green, flesh white and firm. We suggest A & C, Marketer or Straight 8.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

**ASHLEY.** 66 days. Resistant to downy mildew. Vigorous vines and heavily productive. Fruits are dark green, 8 inches long, 2¼ inches wide, tapering to the stem end.

Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

★**IMPROVED "A & C."** 68 days. The vigorous growing, disease-resistant vines produce an abundance of uniform, exceedingly dark green Cucumbers, averaging 10 inches long. The fruits are of uniform diameter from stem to blossom end, are rather slim, averaging 1¼ to 1½ inches in diameter, without any bulge in the center, and with practically no taper at the ends.

Oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

**YORK STATE PICKLING.** A mosaic resistant pickling type, for use in areas where this disease prevents the production of a satisfactory crop of pickles. Vines and fruits are very similar to Chicago Pickling.

Oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid.

**CHICAGO PICKLING or NATIONAL PICKLING.** 58 days. Early, heavy yield. A very prolific variety combining all the qualities desired by those who raise Cucumbers. Fruits are of uniform size and good color. Used almost exclusively by all large pickling houses.

Oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid.

**HYBRID CUCUMBER, FOREMOST SL-1.** This F<sub>1</sub> hybrid is the darkest green Cucumber we have ever seen. It is a beautifully symmetrical slicer, 8 inches long, slender and cylindrical with blocky, rounded ends. The flesh is crisp, clear white with unusually small seed cavity. It is white spined, and the spines are very few and very fine. The skin is thick and quite tender, necessitating careful handling and packing. It is earlier than Marketer and A & C, in fact it produced two good sized pickings by the time Marketer had made only one picking of slicing sized fruits.

Trial pkt. (50 seeds), 75c; oz., \$4.50; 4 ozs., \$16.00; 8 ozs., \$30.00, postpaid.

**STRAIGHT-8.** 62 days. This outstanding variety produces symmetrical cylindrical fruits about 8 inches in length, and about 1½ inches in diameter. The fruits are well rounded at the ends. This is an ideal shipping variety.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, ppd.

**LONGFELLOW CUCUMBER.** 72 days. An excellent long slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. 12 to 14 inches long by 2½ inches in diameter. Fairly early; good healthy grower; very productive.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, ppd.

**OHIO M. R. 17.** Developed at the Ohio University Experimental Station. Mosaic resistant. Compares favorably with National Pickling as to plant type, yield and vigor, but fruits are somewhat more slender, slightly longer, and darker green. Fruits are uniform and a good pickling type.

Oz., 25c; ¼ lb., 75c; lb., \$2.25, ppd.



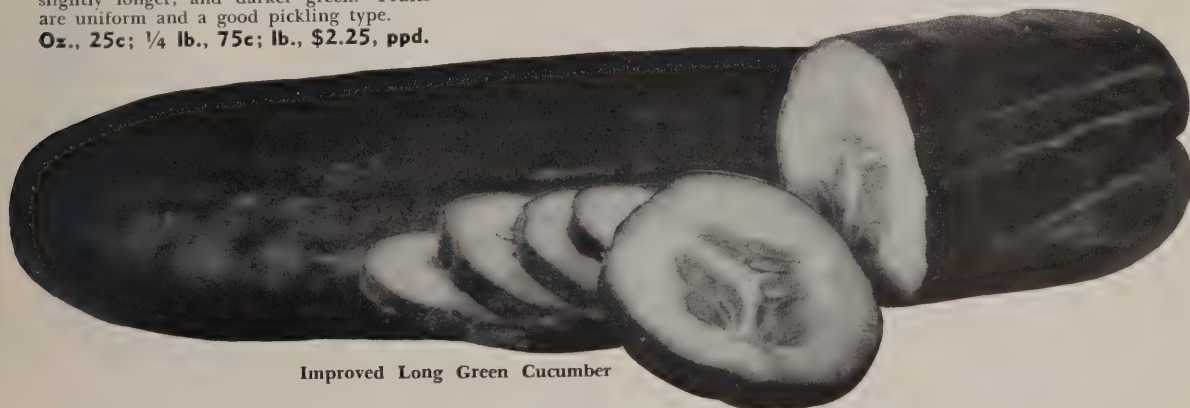
Marketer

★**MARKETER.** 70 days. A variety of recent introduction, producing very dark green cylindrical fruits which taper slightly at the ends. Fruits 7½ to 8 inches long, 2¼ inches in diameter. White spined. Vines vigorous and prolific. Its uniform shape and attractive color make it an excellent market variety.

Oz., 25c; ¼ lb., 75c; lb., \$2.25, postpaid.

**LONG MARKETER.** 70 days. 8 to 9 inches long, and a shipping and market variety for areas not troubled with downy mildew. The fruits are uniformly beautiful, long and slim. Color is dark green and holds up well in shipping.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.



Improved Long Green Cucumber

★This variety recommended by Michigan State University.



## Eggplant

**CULTURAL DIRECTIONS.** One ounce to 1000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March, transplant about June 1st, in rows about three feet apart and two feet apart in the row. Eggplant requires a rich soil, free from disease and rotation of crop is recommended.

**BLACK BEAUTY.** 80 days. Early and productive. Fruit large and of rich glossy black color.

Oz., \$1.00; ¼ lb., \$3.00; lb., \$10.00, postpaid.

**NEW YORK PURPLE.** 80 days. A favorite market variety. Fruits larger than the Black Beauty. The plant is large, spreading and spineless, producing 4 to 6 large, oval fruits of dark purple color.

Oz., \$1.00; ¼ lb., \$3.00; lb., \$10.00, postpaid.

## Kale or Borecole

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow from August 1st to September 15th in rows 18 inches apart, and they will yield greens during fall and winter. They are improved by freezing.

**DWARF CURLED SCOTCH.** 110 days. A handsome, very finely curled, dwarf spreading variety, foliage long and attractive bright green; very hardy.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**TALL CURLED SCOTCH.** 110 days. Plants of this variety grow 2 to 3 feet in height, bearing long plumelike light green leaves, which are very much cut and deeply curled at the edges. Very hardy.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.



Collards

## Kohl - Rabi

### TURNIP-ROOTED CABBAGE

**CULTURAL DIRECTIONS.** One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for fall use. Should be used when young and tender.

**EARLY WHITE VIENNA.** 60 days. Very early, small tops, can be planted close together; best for forcing, or field culture.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

## Leek

**AMERICAN FLAG.** 150 days. Stem about 10 inches long by 2 inches thick. A strong, vigorous plant with mild flavor. One of the best sorts for the market garden.

Oz., 75c; ¼ lb., \$2.00; lb., \$6.00, postpaid.

**ELEPHANT.** (Monstrous Carentan). 150 days. Large stems, 6 to 8 inches long, 2 to 3 inches thick. Leaves very dark green, hardy, prolific, for fall and early winter use.

Oz., 75c; ¼ lb., \$2.00; lb., \$6.00, postpaid.



Black  
Beauty  
Eggplant

## Endive

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow in rows about 15 inches apart and thin to one foot apart in the row. Sow seed for fall crop in June or July. When nearly fully grown, tie outer leaves together bringing them up over the head for blanching. A well-formed fertilizer is recommended.

**LONG GREEN CURLED or MOSS CURLED.** 95 days. Also known as Large Curled Pancalier. A late, coarsely toothed variety of good size, which forms a good blanched heart in the fall. The mid-rib or leaf stem is tinged with rose.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

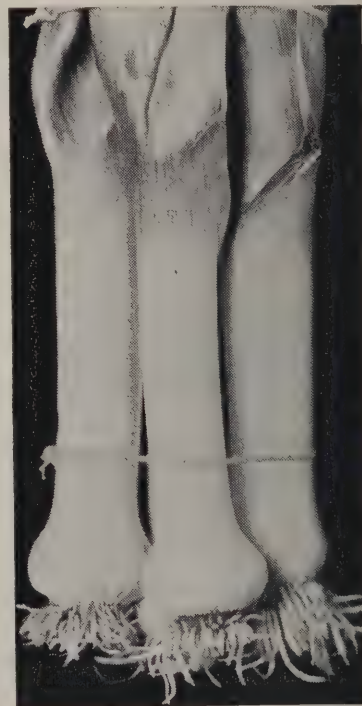
**BROAD-LEAVED BATAVIAN.** (Escarolle). 90 days. One of the best varieties for salads; leaves of upright growth, broad, more or less twisted and waved, bright deep green, with a nearly white mid-rib. Inner leaves form a fair head which blanches a creamy white.

Oz., 25c; ¼ lb., 70c;  
lb., \$2.00, postpaid.

## Collards

**TRUE GEORGIA.** 75 days. Plant 2 to 3 ft. high, forming a cluster of tender, undulated leaves at the top of its rather long stems; used as greens.

Oz., 15c; ¼ lb., 30c;  
lb., \$1.00, postpaid.



Leek



## Leaf Lettuce

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix a complete commercial fertilizer with the soil and sow seed very early in the spring. For leaf lettuce sow in rows 12 inches apart and do not thin until plants are big enough

to use. Head lettuce should be sown in rows 18-24 inches apart and thinned to 12-15 inches apart in the row.

During warm weather germination may be greatly aided by firming the seed bed and sow the seed shallow. Keep the soil moist until germination is completed.



The above photograph shows the Grand Rapids Forcing Lettuce, Washington Strain, in full bloom in the greenhouse, where it is possible, by careful plant selection, to keep it up to its original purity.

**GRAND RAPIDS FORCING LETTUCE, WASHINGTON STRAIN.** 45 days. This splendid strain is one of the favorite strains being used by all of the larger growers, who recommend it as a superior Lettuce. The late Mr. Yonker, who was one of our leading greenhouse growers, by careful plant selection, has kept it up to its original purity. It is absolutely true to type. Color is light green, heads very leafy; leaf crisp, tender and curly, quality of the best. We grow our own foundation seed in the greenhouse, as shown by the above photograph and send it to one of the best seed growers on the coast to grow the seed crop.

**Oz., 25c; 1/4 lb., 70c; lb., \$2.00, postpaid.**

**TENDERGREEN.** 45 to 50 days. Originated at the Michigan State University by Dr. Wittwer. A dark, cool weather Lettuce, a cross between G. R. Forcing and Bibb. It grows real well where it is shady, either indoors or outdoors.

**1/8 oz., 30c; 1/4 oz., 50c; 1/2 oz., \$1.00; oz., \$2.00; 1/4 lb., \$8.00; lb., \$30.00, postpaid.**

**BURPEEANA.** 75 days. This sensational new Lettuce developed by Burpee Seed Co. is an improved Bibb type, and is both for greenhouse and outdoor production, with increased yields over Bibb up to 25%. It is outstanding in quality, appearance and uniformity. Slow bolting in growth habit. Produces shiny deep green butterheads with very slight bronze marking, moderately crinkled or savoyed, always crisp and tender, never bitter, a very superior sweet flavor.

**Oz., \$1.00; 1/4 lb., \$3.00; 1 lb., \$9.00, postpaid.**

**GRAND RAPIDS TIP-BURN RESISTANT.** 45 days. Color light green, somewhat like the Washington strain, being used for greenhouse growing where tip-burn is visible.

**Oz., 25c; 1/4 lb., 75c; lb., \$2.25, postpaid.**

**BLACK-SEEDED SIMPSON.** 40 days. One of the best loose-leaved varieties for the home garden or for the market garden, for outdoor sowing. Can be grown all through the season; very tender.

**Oz., 20c; 1/4 lb., 50c; 1 lb., \$1.50, postpaid.**

**PRIZEHEAD.** 45 days. A crisp and tender loose-leaved, non-heading sort, color light brown on a medium green base; quality good.

**Oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.**

**OAK-LEAVED.** 43 days. A distinct Lettuce. Leaves are smooth but are deeply lobed to resemble the leaf of an Oak tree. Medium large size, spreading, fairly dark green. Leaves are thick, succulent and tender.

**Oz., 30c; 1/4 lb., \$1.00; lb., \$3.00, postpaid.**

Niagara Brand dusts and spray materials are available at our warehouse throughout the growing season. Consult us for recommendations on insect and disease problems on all your vegetable crops.



## Head Lettuce

**ALASKA.** This was tested out of USDA No. 3310, and was given the name when it proved specially suited to that territory, where it has outyielded the good yielders, Great Lakes and Cornell 456. It has shown resistance to anthracnose to which both of these varieties are susceptible. It is large, dark green, late maturing, late bolting and tip burn resistant. It also does well in various places in the States (but not better than Great Lakes).

**Oz., 80c; ¼ lb., \$2.35; lb., \$7.00, postpaid.**

**WHITE BOSTON.** 76 days. Has a fine, large solid head and light green outer leaves, but does not have the brown edges. A tightly folded heart that bleaches to a bright, creamy yellow shade. It is sweet and crisp.

**Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.**

★**GREAT LAKES.** 83 days. A heading variety of the Imperial type, developed by the U. S. Dept. of Agriculture and the Michigan State College. Leaves large and well folded; heavy ribs. Shows considerable resistance to tip-burn and ability to head under adverse conditions.

**Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.**

**PREMIER GREAT LAKES.** 75 days. Developed from a single plant selection of Great Lakes at Penn. State College. All-America Bronze Medal, 1947. Heads solid, practically round, up to 7 inches in diameter and two pounds in weight. Slow to bolt and very resistant to tip-burn.

**Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.**

**PENNLAKE.** 83 days. Developed at the Pennsylvania Experiment Station, from a cross of Great Lakes and Imperial 847. Heads compact and well covered, protected from scald by broad wrapper leaves. Less ribby than Great Lakes, but equally solid and resistant to tip-burn.

**Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.**

**JADE** is a large head, very dark green, leaves heavily savoyed (wrinkled and curled) and cold resistant. It is a midseason variety that shows special promise as a fall crop in the irrigated valleys of the Southwest. Its most valuable characteristic is its cold resistance in late stages of growth, and it can be grown so as to mature between the fall and winter crop, the coldest period in these valleys. Jade also shows promise for the early spring crop in the Middle Atlantic states.

**Oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.**



Imperial or Cornell 456

**IMPERIAL or CORNELL 456.** 82 days. A true selection of the Imperial type. This strain shows greater resistance to tip-burn than does the Imperial No. 44. Particularly adapted for muck soils. Frame and head slightly smaller than Great Lakes, but makes a firm and harder head. It is a lighter green in color, and also resistant to early bolting.

**Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.**

**BIBB.** 57 days. A distinct butter head, very dark green variety, which is becoming more popular every year. Loosely folded heads of small size. Leaves thick. Quality excellent.

**Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.**

**EIFFEL TOWER COS.** 65 days. A recent introduction; a tall, compact variety with well folded leaves, more cylindrical than the more usual Cos shape.

**Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.**

**DARK GREEN COS.** 70 days. A medium large dark green variety which forms a good sized, well folded head.

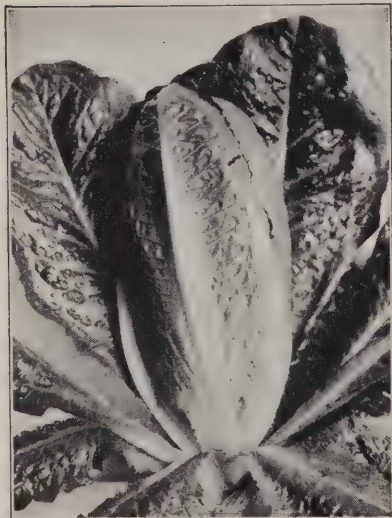
**Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.**

**ROMAINE or EARLY WHITE SELF-FOLDING LETTUCE.** 66 days. We consider this the very best strain of the Cos variety. Very uniform in type, forms a compact, firm head. Color dark green outside, beautifully blanched inside. Very crisp; sweet.

**Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.**

**SALAD BOWL.** An excellent home garden lettuce.

**Oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.**



Cos Lettuce



## Muskmelons

**CULTURAL DIRECTIONS.** One ounce will plant 50 hills, two pounds an acre. Melons do best in a rich, sandy soil. Broadcast 800-1000 pounds complete commercial fertilizer per acre before planting. Hills should be from 4 to 6 feet apart. Plant 10 to 12 seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects is past, thin to three good plants to the hill.

Either No. 10 pyrocid dust or methoxychlor is the control measure to keep your Muskmelons clean. Apply promptly and grow Melons without trouble.

★**HEARTS OF GOLD.** 88 days. A splendid small, midseason variety. Fruit round, 6 inches long and 5½ inches in diameter, weighing 3 to 3½ lbs., with a tendency to heart shape, lightly ribbed and covered with a fine gray netting; flesh very thick, deep salmon color, and of high quality; a good shipping Melon.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

★**HONEY ROCK.** 80 days. One of the most prolific varieties grown. The fruit is round, slightly flattened at the ends, 5 to 6 inches in diameter, weighing 3 to 4 lbs., and distinctly netted. The flesh is soft pink with a greenish tint. The rind is hard and the flesh so firm that it is an excellent shipper.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**SMITH'S WILT RESISTANT HONEY ROCK.** Developed by the Michigan State University and proved to be wilt resistant.

Oz., 65c; ¼ lb., \$2.00; lb., \$6.00, postpaid.

**HARVEST QUEEN.** 85 days. Fusarium-resistant. The Melons are medium sized, oval in shape, with a thick, ropy netting covering the hard rind which ripens from blue-gray to golden yellow. The extra thick flesh is fine textured with a delicious Muskmelon flavor.

Oz., 40c; ¼ lb., \$1.25; lb., \$3.75, postpaid.

★**GOLDEN DELIGHT.** All-America Bronze Medal for 1952. Outstanding for home and local market, but not recommended for long distance shipping. A large, broad, oval Melon of the Pride of Wisconsin type, but larger and earlier. Very thick salmon-colored flesh with one of the best flavors of any Melon in its class. Attractive grayish green netting with almost indistinct ribbing.

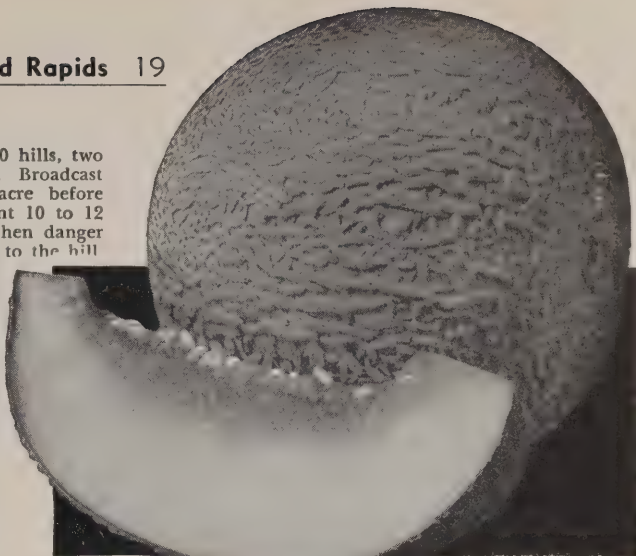
Oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.



Golden Delight

**IROQUOIS.** 90 days. This new Melon has definite resistance to fusarium wilt. Fruits are round to oval, about 6½ inches in diameter, with prominent ribs and good netting; the rind is tough and holds up well. Flesh is deep orange color, of fine texture and excellent quality.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.



Honey Rock Muskmelon

**SCHOON'S HARD SHELL.** 90 days. Thick, oval, prominent ribbing with abundant coarse netting; skin gray-green becoming yellow at maturity; flesh very thick, deep salmon-orange, well flavored, excellent quality. 6½ to 7½ inches in diameter, weighing 5 to 7 lbs.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**EXTRA EARLY OSAGE.** 84 days. Standard variety of splendid quality for nearby markets and home gardens. Fruits 6 to 7 inches long; almost round; with shallow furrows and sparse shallow netting. Flesh very thick; salmon-orange; fine-grained, sweet, aromatic.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**OSAGE or MILLER'S CREAM.** 92 days. Splendid Melon for home or market garden. Fruits 7 inches long and 6½ inches in diameter. Almost round; dark green skin that shows trace of yellowing at ripening stage, slightly netted and ribbed, flesh very thick, juicy, sweet, spicy, deep salmon-orange.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**PRIDE OF WISCONSIN.** (Market King.) 85 days. Similar in size and shape to Honey Rock. Oval in shape with tough, heavily netted rind. 6 inches long and 5½ inches in diameter, weighing 3½ to 4½ lbs. Flesh deep orange and very thick, sweet and of excellent quality.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.



Iroquois



## Selected Varieties of Watermelon

**CULTURAL DIRECTIONS.** One ounce to 30 hills, about four pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.

**HARRIS EARLIEST.** (Cole's Early). 75 days. The best extremely early variety; fruits medium size, broad, oval; weighing 10 to 12 lbs., dark green stripes alternate with lighter; rind brittle, flesh bright red of good quality, seeds blackish.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

**TOM WATSON.** 92 days. Produces Melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 35 to 40 lbs. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

★**KLECKLEY'S SWEET or MONTE CRISTO.** 85 days. One of the sweetest Melons on the market; medium early, long, averaging 18 to 20 inches, slightly tapering to the stem end, weighing 30 to 40 pounds. Rind very dark green, flesh very bright red and ripens nearly to the rind. Too tender for a shipping Melon, but excellent for market and home garden.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.



Dixie Queen Watermelon

**DIXIE QUEEN.** 85 days. A new variety, for the market and the home garden. Excellent quality, fruit nearly round, with light and dark green stripes, growing to a good size. Rind thin, but tough—flesh bright scarlet, solid, of fine texture, weighing around 30 lbs.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.



Kleckley's Sweet or Monte Cristo

**KLONDYKE, BLACK SEEDED.** 85 days. An important market and early shipping variety. Melon is fairly large, averaging 16 inches long and 8 inches in diameter, slightly flattened ends. Exterior color dark green, very thin rind; flesh bright scarlet.

Oz., 25c; ¼ lb., 85c; lb., \$2.50, postpaid.

**CHILEAN BLACK SEED.** 80-85 days. Fruit 10x9 inches, almost round, medium green exterior with darker green stripes, brilliant red flesh, black seed. A popular medium sized variety.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

**SWEETHEART.** 85 days. A medium early variety growing to a large size; a heavy, round to oblong form with rather thick, tough rind and a good shipper, weighing 20 to 25 lbs. Color very light green, flesh bright red, with black seeds.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

**CITRON, RED SEEDED.** 90 days. The old well known red-seeded preserving Melon.

Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

**NEW HAMPSHIRE MIDGET.** Was introduced by the New Hampshire Experiment Station and won an All-America Selection Award. It is a small or "ice-box" type of Melon. It reaches maturity much earlier than most varieties in the northern areas, and its popularity will probably be restricted to this section. The Melon is small, elliptically shaped, with a thin rind and many small seeds. It must be harvested at early maturity, since it will not hold up well if it becomes over-ripe.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

**NIAGARA PYRENONE DUST** is the control measure against beetles and other insects. Apply promptly and grow your Melons without any trouble. Circular free on request.

## Mustard

**SOUTHERN GIANT CURLED.** 60 days. Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the edges.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

**LARGE SMOOTH-LEAF.** 50 days. Large, vigorous leaves, broad and oval, deep green, margin toothed but otherwise plain.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

## Okra or Gumbo

**DWARF LONG POD GREEN.** 55 days. Replacing White Velvet Prolific. Plant 2½ to 3 feet tall; pods dark green, fleshy and tender, become 7 to 8 inches long and 1½ inches in diameter. Distinctly ribbed and tapered.

Oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

**PERKINS MAMMOTH LONG POD.** 56 days. For home and market garden. Plants 4 to 5 feet tall, pods dark green, fleshy, tender, becoming 7 to 8 inches long. Distinctly ribbed and tapered.

Oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

**EMERALD.** 57 days. Developed by Campbell Soup Co. as an excellent home and market variety with very dark green, round and spineless pods. Plants are dwarf and vigorous, with dark green leaves.

Oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.



# Choice Onion Seed

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill; about 4 to 6 pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 3-9-27 fertilizer. Drill in rows about a foot apart, covering seed to a depth of ½ inch. Use only fresh, 1-year-old Onion seed.

On dry Onions Dieldrin 1½% dust gives excellent control of both maggots and thrips. This material should not be used on a crop to be used as green Onions.

**DOWNING'S YELLOW GLOBE.** A new strain of Yellow Globe type, and superseding all the others. Compared with Brigham Yellow Globe, it has a uniformly darker color and is considered an improvement over the well known storage types. Bulbs globe-shaped, are very solid with tight fitting skins; excellent keeping qualities. 110 days to maturity.

Oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.  
Not postpaid, 10 lbs., \$32.50.

**BRIGHAM STRAIN.** (The long keeping Onion). 109 days. One of the leading varieties of yellow globe Onions. Bulbs are selected for type and quality and produce larger Onions with a vigorous growth. Good keepers, globe shaped, rich golden color.

Oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.  
Not postpaid, 10 lbs., \$32.50.

★**EXTRA EARLY YELLOW GLOBE.** 98 days. Excellent semi-globe shaped and is a good yielder. It ripens well, and under normal conditions the bulbs are ready for market 10 days ahead of the Southport Yellow Globe. Color is a rich deep yellow and it can be kept in storage for a limited time.

Oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.  
Not postpaid, 10 lbs., \$32.50.

Downing's  
Yellow Globe

## Sweet Spanish

**MICHIGAN STATE SWEET SPANISH.** An improved strain of Sweet Spanish, developed by Dr. Harmer of the Michigan State College. Selected and developed for a long keeping storage Onion. Very productive, good color, and fine for shipping.

Oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

**UTAH SWEET SPANISH.** 110 days. Deep yellow color, excellent keeping qualities, thicker skin and uniformity in size. Bulbs globe shape, about 2½ to 3 inches, when larger a slightly flattened globe shape. Flesh white, of mild, pleasing flavor.

Oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

**SWEET SPANISH, GROWERS STRAIN.** 110 days. The largest yielder of the yellow Onions, averaging 3 to 4 inches in diameter. The best and not susceptible to the attack of thrip. Good keeper and shipper.

Oz., 50c; ¼ lb., \$1.50; lb., \$5.00, postpaid.

**WHITE SWEET SPANISH.** 110 days. Similar to original Sweet Spanish, except white with glistening skin. Globe-shaped.

Oz., 60c; ¼ lb., \$1.80; lb., \$5.50, postpaid.

## Hybrid Onions

**ABUNDANCE.** 103 days. A hybrid of the Early Yellow Globe class which produces exceptionally high yields. Very deep globe in shape. Outer scales are dark straw to coppery bronze in color. Too soft for bulk storage.

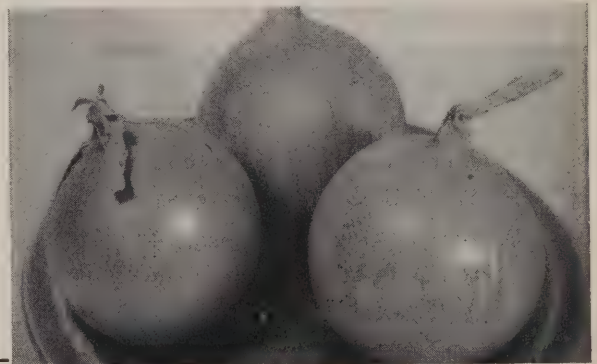
**ARISTOCRAT.** 105 days. A storage type which has out-performed the better Brigham strains both in yield and keeping quality. Bulbs are full shouldered globe shape. Skins are deep bronze in color and have a very attractive sheen when cured.

**EPOCH.** 108 days. A very hard, thick-skinned storage type. Yields about the same as Brigham Yellow Globe but is more uniformly hard and thick-skinned. Shape is full globe and dry scales are very dark bronze in color.

**ENCORE.** A heavy yielding Early Yellow Globe hybrid designed for limited storage. The bulb is a high globe shape, and has rather soft, pungent creamy white flesh. Bright, attractive shell, color range medium dark straw color to pale brown. Outer shell is well retained with normal handling. Adaptable over a wide range.

**SURPRISE.** A cross between two Brigham Yellow Globe inbreds, is a long, day storage type hybrid, and is high yielding where it is adapted. The bulbs are firm, and exceptionally uniform with pungent, crisp, cream-white flesh. The scales are of a medium dark yellow-brown color and are well retained throughout a long storage period. Surprise has consistently outyielded Brigham Yellow Globe in the test conducted by the U. S. Department of Agriculture.

**PRICES:** Oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$9.25, postpaid. In 10-lb. lots, \$9.00 per lb.



Hybrid Onions

Scientific plant breeding makes it possible for us to offer Onion types with hybrid vigor, leading to heavy yields, uniformity and high quality.

**Y-41.** This hybrid produces bulbs of almost globular shape, slightly tapered to the bottom, with thin but tight, straw-colored skin, and mild, white flesh. A first early type, being of the same maturity as Early Yellow Globe, but with better skins and up to 50% higher yields. Bulb firmness: soft.

**Y-42.** A hybrid of Yellow Sweet Spanish type, but about 10 days earlier than this well-known old variety. The bulbs are globular with good tight necks, deep straw-colored skins, and mild, white flesh. Produces a heavy yield of large, uniform and attractive Onions. Bulb firmness: medium firm. Storage: medium long keeper.

Oz., 75c; ¼ lb., \$2.25; 1 lb., \$8.25, postpaid.  
10-lb. lots, \$8.00 per lb.

**AUTUMN SPICE.** An extra hard, long keeping Onion. Autumn Spice has been highly successful in many Onion sections, especially in Canada and the Middle West. The bulbs are medium size and globe to deep globe in shape with small necks and they are well protected with a thick skin of fine color. Used for prepackaging as well as general market use, and because of its uniformly attractive bulbs that can be stored in winter.

Oz., 65c; ¼ lb., \$2.00; lb., \$6.15, postpaid.  
Not postpaid, 10-lb. lots, \$6.05 per lb.;  
25-lb. lots, \$5.95 per lb.



## Onion Seeds—Continued

★**SOUTHPORT WHITE GLOBE.** 120 days. Same type as Southport Yellow Globe, with a thin delicate skin of pure paper whiteness, but two weeks earlier and exceedingly mild. It usually commands the highest price on the market.

Oz., 60c; ¼ lb., \$1.80; lb., \$5.50, postpaid. 10-lb. lots, \$50.00.



Long Bunching Onions

**WHITE PORTUGAL or SILVERSKIN.** 100 days. An early flat white Onion of mild flavor. Used mostly to grow sets.

Oz., 45c; ¼ lb., \$1.35; lb., \$4.00, postpaid.

**WHITE WELCH.** 100 days. While it forms no bulbs it is one of the best for bunching as green Onions. Very hardy. The white shoots make a rapid growth and are ready for market ahead of those from sets. Mild and delicate in flavor.

Oz., 50c; ¼ lb., \$1.50; lb., \$4.50, postpaid.

**LONG BUNCHING (Heshiko.)** (American grown.) A new perennial bunching Onion that does not form a bulb.

Oz., 45c; ¼ lb., \$1.35; lb., \$4.00, postpaid.

## Chives

A hardy perennial of the Onion type. Listed under "Herbs" on page 27.

Pkt., 15c; oz., \$1.75, postpaid.

## Parsnips

**CULTURAL DIRECTIONS.** One ounce will sow 100-150 feet of drill, 3 to 4 pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly covering to depth of ½ inch. Thin as for

Carrots. Use only fresh one-year-old seed. Parsnips may require several weeks to germinate.

**HOLLOW CROWN.** 130 days. Thick shoulder. This variety is more generally grown than any other sort; roots smooth, tender and sugary.

Oz., 20c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**SHORT THICK.** 100 days. A fine bunch vegetable, tops one-half size of Hollow Crown. Short, thick roots, free from strings, flavor much more delicate than other varieties of Parsnips. Fully a month earlier than Hollow Crown and reach maturity in 100 days.

Oz., 20c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**HARRIS EARLY MODEL.** 95 days. Root is 10 inches long by 3½ inches thick at the shoulder, tapers off more abruptly than Hollow Crown. Flesh white, tender and sweet. Good quality, very white and free from side roots.

Oz., 20c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**ALL-AMERICAN.** 95 days. Root is 12 inches long by 3 inches thick at the shoulder, tapering gradually to the tip, smooth and decidedly hollow crown. Flesh white and tender. Selected for whiteness of skin color, and slightly more length. Smooth and very few side roots.

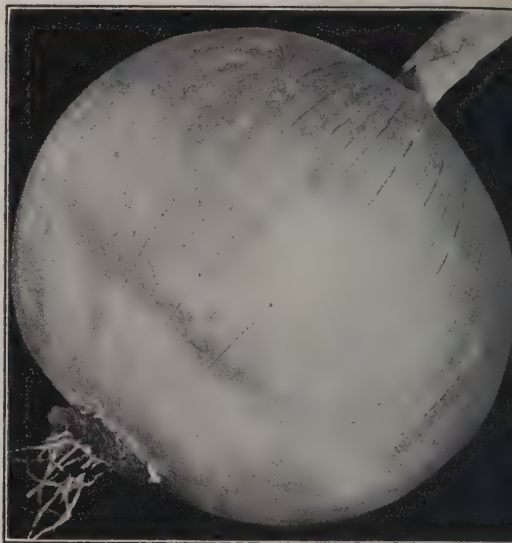
Oz., 20c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

## Strawberry Plants

Dunlap, Premier or Everbearing. We will have good, sturdy plants in season, and solicit your inquiries.



Hollow Crown Parsnip



Southport White Globe

## Parsley

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows 15 in. apart, thin to 4 or 5 in. apart in the row. Parsley requires rich soil.

**TRIPLE CURLED or MOSS CURLED.** (Paramount.) 85 days. Plant handsome, beautifully curled and rapid grower. Will produce a large crop.

Oz., 40c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

**HAMBURG ROOTED.** 90 days. Grown for the root which resembles a Parsnip in shape and color. Foliage very much like plain Parsley.

Oz., 40c; ¼ lb., \$1.00; lb., \$3.00, postpaid.



"Paramount" Moss-Curled Parsley





Dwarf Telephone Peas

## Garden Peas

Due to the increase in postage rates, PEAS are not postpaid, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

**CULTURAL DIRECTIONS.** Two pounds will plant 100 feet of drill; about 2 bushels or 120 pounds per acre. Peas do best on well-drained, rich, sandy loam that has been manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

**ALASKA.** 57 days. A small, smooth blue Pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vines about two feet in height, pods small, but well filled. Can nearly all be harvested at one picking.

Not postpaid: Lb., 40c; 15 lbs., (1 pk.), \$3.60.

**LITTLE MARVEL or DARK PODDED SUTTON'S EXCELSIOR.** 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches, filled with deliciously sweet Peas. Vines about 15 inches tall.

Not postpaid: Lb., 45c; 14 lbs. (1 pk.), \$3.75.

**AMERICAN WONDER.** 60 days. One of the earliest and sweetest wrinkled Peas. Vines dwarf, productive. Pods small, well filled. Most delicious Pea for the home garden.

Not postpaid: Lb., 45c; 14 lbs. (1 pk.), \$3.75.

★**IMPROVED LAXTONIAN.** 62 days. The best of the Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches, broad, containing eight large Peas of excellent quality. The best second early, big-podded sort. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

★**WORLD'S RECORD.** 58 days. A new variety on the order of Gradus, being slightly earlier, more productive and true to a fixed type. Grows about 2 feet in height, with large, dark green pods nearly 4 inches in length, broad, pointed and always well filled with large, sweet Peas of splendid quality. An excellent, profitable sort for home or market garden. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

★**THOMAS LAXTON.** 62 days. One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunt-ended and well filled with large Peas. Peas wrinkled. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

★**DWARF TELEPHONE.** A splendid main crop Pea, coming between the Telephone and Stratagem. Of the Stratagem type, but a heavier yielder. Height 2½ feet. Foliage very heavy, sturdy and dark green. Pods 4¼ inches long, dark green, broad, straight and pointed, containing nine large, medium dark green Peas of the best quality. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

★**ALDERMAN or TELEPHONE.** 72 days. Vines about 4 feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

**LAXTON'S PROGRESS.** 62 days. Splendid variety for home market garden and shipping. Vines dwarf, about 22 inches, dark green, prolific. Pods 4¼ inches long, handsome; dark green; plump, tapered at ends. Seeds large, wrinkled, cream, interior yellow. Suitable for quick freezing.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

**MORSE'S PROGRESS No. 9.** 62 days. (Wilt Resistant). The earliest long podded variety for shipping and market. An improved Laxton's Progress with outstanding performance, and we may have to substitute this variety as Laxton's Progress may not be available.

Not postpaid: Lb. 45c; 14 lbs. (1 pk.), \$3.75.

## Edible Pod Sugar Peas

**DWARF GRAY SUGAR.** 62 days. A dwarf, edible pod variety. Vines about 2 feet high. Cook pods like string Beans.

Not postpaid: Lb., 50c; 14 lbs. (1 pk.), \$3.90.

## Cowpeas

Often referred to as Table Peas, but botanically are more closely related to Beans.

**CALIFORNIA BLACKEYE.** 95 days. A newer improved selection. Has concentrated pod set at crown. Holds pods erect, has large seed and is resistant to charcoal rot, Cowpea wilt and nematodes. Normally much more productive than the old type Black Eye. Popular for edible purposes.

Not postpaid: Lb., 40c; 10 lbs., \$3.50.

★Due to present rates of postage and pending changes, please bear in mind that anything that is quoted "Not Postpaid" means the postage will be extra and in the case of 10 lbs. of Peas, the mailing weight would be at least 12 or 13 lbs. on which the rates in force at time of ordering would prevail. Additional money must be included with the order for the postage, however, if it is not enough to cover the postage due, we will weigh the seeds to cover the actual funds received. Any extra money that is sent, and not needed, will be refunded immediately when your order is filled.





Liberty Bell

**KEYSTONE RESISTANT GIANT.** (Mosaic Resistant.) 74 days. Plant is 28 inches tall, upright and vigorous, extremely thick stems and abundant foliage, sets fruit  $4\frac{1}{2}$  inches long,  $3\frac{3}{4}$  inches across, mostly 4-lobed. Attractive dark green turning dark red when ripe.

Oz., \$1.00;  $\frac{1}{4}$  lb., \$3.50; 1 lb., \$12.00, postpaid.

**LIBERTY BELL.** Pendant fruited California Wonder type with resistance to Tobacco mosaic and a tolerance of at least one strain of Cucumber mosaic. Fruits predominantly 4-lobed, thick-walled, blocky and deep green in color. Unlike other varieties of mosaic resistant Peppers, infolding at the top and bottom is rare. Being pendant fruited, Liberty Bell is unlikely to sunburn since the fruit grows downward beneath the foliage. Heavy yielder.

Oz., \$2.00;  $\frac{1}{4}$  lb., \$6.00; 1 lb., \$18.00, postpaid.

**LONG RED CAYENNE.** 70 days. Pendant fruits about 5 inches long and  $\frac{1}{4}$  inch in diameter at the base, often curved and twisted; bright red, hot and pungent.

Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.25, postpaid.

**HUNGARIAN YELLOW WAX.** (Hot.) 60 days. Very early. Desirable for home, market garden and canning. Plants small, heavily productive. Fruits 6 to 7 inches long, 2 inches thick, tapered, smooth, waxy light yellow becoming bright red. Flesh thick, pungent.

Oz., 75c;  $\frac{1}{4}$  lb., \$2.50; 1 lb., \$7.50, postpaid.

**HUNGARIAN YELLOW SWEET.** 60 days. Considered the first early Pepper in the season. The fruit is from  $5\frac{1}{2}$  to 6 inches long by  $1\frac{1}{2}$  inches in diameter, tapered, smooth flesh; is fairly thick and pungent. Color is waxy yellow, becoming a bright red at maturity.

Oz., 75c;  $\frac{1}{4}$  lb. \$2.50; 1 lb., \$8.00, postpaid.

**SWEET BANANA.** 65 days. The plant is 20 to 24 inches tall, upright, dark green, very vigorous, heavy foliage of large leaves. Fruit  $6\frac{1}{2}$  to  $7\frac{1}{2}$  inches long,  $1\frac{1}{2}$  inches in diameter, tapered to the point with very slight curve; sweet, medium flesh wall, light yellow turning to bright red at maturity. Is an excellent variety for home and garden.

Oz., 75c;  $\frac{1}{4}$  lb. \$2.50; 1 lb., \$8.00, postpaid.

**BULL NOSE or LARGE BELL.** 55 days. Large, bell-shaped, thick fleshed fruit. Good for Mango pickles.

Oz., 75c;  $\frac{1}{4}$  lb., \$2.50; 1 lb., \$8.00, postpaid.

**ROUMANIAN.** (Sweet.) 67 days. An attractive waxy yellow variety. Fruits 4 to  $4\frac{1}{2}$  inches long.

Oz., \$1.25;  $\frac{1}{4}$  lb., \$4.00; 1 lb., \$15.00, postpaid.

**RUBY KING.** 65 days. One of the most profitable and satisfactory varieties for the home or market garden; plants are early, productive and of dwarf compact, upright growth; fruits pendent, often 4 to 6 inches long by 3 to 4 inches thick, tapering and of a bright ruby-red color; flesh is thick, mild and sweet.

Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.25, postpaid.

**PIMENTO.** 73 days. A rather late, very thick-fleshed, heart-shaped, smooth, mild, crimson variety; much used for salads.

Oz., 75c;  $\frac{1}{4}$  lb. \$2.50; 1 lb., \$8.00, postpaid.

**RED CHILI.** 85 days. Small, red, cone-shaped. Very hot and prolific. Used for seasoning.

Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.25, postpaid.

## Peppers

**CULTURAL DIRECTIONS.** One ounce will produce about 2000 plants; 8000-9000 plants for an acre. Sow seeds in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about 3 feet apart and 18 inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

**CALIFORNIA WONDER.** 72 days. Thickness of flesh alone, which is often  $\frac{1}{2}$  of an inch, places this sweet Pepper above all others. Vigorous growing plants, blocky fruit 5 inches long and 4 inches wide. When fully matured, it has a waxed appearance.

Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.25, postpaid.

**CALWONDER.** Early. 68 days. An early strain of the California Wonder type, smaller, sturdy, vigorous and prolific. Fruit 4 inches long by 3 inches in diameter, 3 to 4 lobed; uniform thick fleshed wall, sweet and mild.

Oz., 75c;  $\frac{1}{4}$  lb., \$2.50; 1 lb., \$7.50, postpaid.

**OAKVIEW WONDER.** 63 days. An earlier and more productive strain of California Wonder. Fruits blocky, smooth, with thick, mild, sweet flesh. Plants shorter and stockier but fruits are set earlier and more abundantly. An outstanding strain unsurpassed for shipping and for the home and market garden.

Oz., 80c;  $\frac{1}{4}$  lb., \$2.75; 1 lb., \$8.75, postpaid.

**HARRIS EARLY GIANT.** 62 days. This popular variety, while we still have seed in stock, and can supply it, is replaced with the new VINEDALE.

Oz., \$1.00;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$9.00, postpaid.

**KING OF THE NORTH.** 64 days. A late introduction and a winner. Similar in type to Ruby King but decidedly earlier. The plant is of medium size and prolific. The fruit is long, moderately slender, tapering to 3 or 4 points.

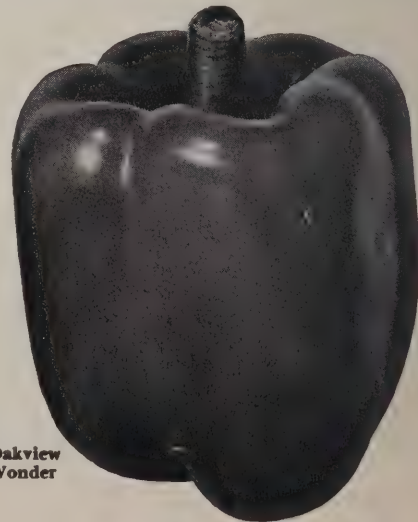
Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.25, postpaid.

**VINEDALE.** 62 days. All-America selection. Vigorous, dwarf, very productive, extra early, uniform, dependable. Fruits medium size with conical blunt or pointed ends, turn red early. This excellent new variety is similar to Harris Early Giant in maturity and type and replaces this well known variety.

Oz., \$1.00;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$10.00, postpaid.

**WORLD BEATER No. 13.** (Mosaic Resistant.) 70 days. Plant 26 inches tall, upright, vigorous, uniform, very productive. Good protecting foliage. Fruit is  $4\frac{1}{2}$  inches long, and 4 inches wide at the base, well shaped. Sweet, medium thick flesh wall. Color green turning bright red at maturity.

Oz., 80c;  $\frac{1}{4}$  lb., \$2.40; 1 lb., \$7.50, postpaid.



Oakview Wonder





**JACK O'LANTERN or HALLOWE'EN.** A strain of Connecticut Field variety, selected for the Hallowe'en trade. Size 7½ to 8 inches in diameter with 8 to 9 inches in height. Perfect for Hallowe'en but can be used as a table Pumpkin. Outside color is orange and flesh is tender and sweet.

**Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.**

**WINTER LUXURY.** 100 days. Round, medium in size, with a golden yellow skin closely netted like a netted Muskmelon; sweet and finely flavored and an exceptionally good keeper.

**Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.**

## Pumpkins

**CULTURAL DIRECTIONS.** One ounce of seed for 20 hills. About 3 pounds per acre. Seed should be planted in hills 8 to 10 feet apart each way, after soil gets warm. Cultivate until vines begin to run. Cut Pumpkins after leaves die, leaving 3 to 4 inches of stem attached to fruit. Store in a dry place, and do not bruise. Dust with pyrocyde No. 10 or rotenone to control vine borer.

**CONNECTICUT FIELD.** 115 days. Standard field Pumpkin for pies, canning and stock feed; also for Hallowe'en trade. Fruits very large, commonly 12 inches long, 14 inches in diameter, and weigh 20 pounds; sometimes much larger. Skin smooth, deep orange-yellow; shell thin, hard; flesh thick, coarse, sweet and deep yellow.

**Oz., 15c; ¼ lb., 50c; lb., \$1.75, postpaid.**

**KING OF THE MAMMOTH.** Productive; of high feeding value—generally grown for stock feed. Fruits enormous, nearly spherical. Skin reddish yellow; flesh thick, bright yellow, firm, rather coarse.

**Oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.**

**★SUGAR PIE.** 108 days. Fruit small, round, flattened at the ends, and slightly ribbed. Skin and flesh deep orange-yellow. Flesh very thick and of high quality.

**Oz. 25c; ¼ lb. 70c; lb., \$1.85, postpaid.**

## Radishes

**NOTICE:** We do not prepay postage on **RADISH** seed at the 10-lb. quantity price. Please refer to page 3 for the parcel post rate and make allowance for packing and package.

**CAVALIER.** 25 days. A highly colored and attractive variety for all purposes and especially for shipping. Tops small, roots oblong-globe, very firm and of bright red color. Especially adapted for growing on muck soils.

**Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.**  
**Not postpaid: 10 lbs. or more, 80c per lb.**

**★GRAND RAPIDS FORCING.** 20 days. New, improved. The best greenhouse variety and the earliest of the Scarlet Globe type, but superior in every way for greenhouse forcing. When properly grown it is the most handsome and best forcing sort with the shortest top and the Radishes are ready to pull before you realize it on this account. A scarlet globe variety with a short top.

**Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.**  
**Not postpaid: 10 lbs. or more, 80c per lb.**

Radishes prefer a deep, rich, sandy soil and an application of a well balanced fertilizer.

**★EARLY SCARLET GLOBE.** 20 days. We have an exceptionally fine stock of this grand variety, which has been tested by having crops grown both in greenhouses and outdoors. Our new stock will not be sold until it is tested. It is one of the earliest forcing Radishes, and does equally as well for outdoor culture. Roots are globe-shaped, of fair size, not apt to be pithy, small tops, crisp and tender, color bright scarlet. A scarlet globe variety with a medium top.

**Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.**  
**Not postpaid: 10 lbs. or more, 80c per lb.**

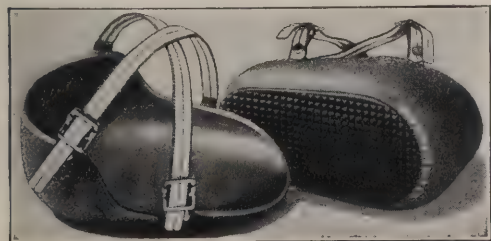


Grand Rapids Forcing Radish

### Knee Pads

The most comfortable, sturdy, long wearing knee pads available. Constructed of top quality molded rubber, with soft sponge rubber cushion on the inside gives positive protection against sore, aching knees. Light weight, and form fit for any knee. Ideal for anybody who is a down-on-the knee worker. Mailing weight 3 lbs.

**Price: \$2.50 per pair. Postage will be extra.**



The Grand Rapids Forcing Varieties are nationally known. Turn to the others: Lettuce is described on page 17.



## RADISHES—Continued

**CHERRY BELLE.** Tops very short, root globe shaped, of bright cherry-red color and small tap root.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

**COMET.** 25 days. Brightest colored of the bunching Radishes. Globe shaped, suitable for use when ¾ to ¾ inches in diameter, but become much larger without becoming pithy. Tops are slightly larger than Scarlet Globe. Roots attractive, bright clear red.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

★**ICICLE.** (Short Top.) 25 days. One of the earliest long varieties, white throughout. Very crisp and tender.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

**FRENCH BREAKFAST.** 20 days. Of oblong shape, small, quick growing, color rose-scarlet, with small white tip.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.



Early Scarlet Globe Radishes

**COOPER'S SPARKLER.**

20 days. White tip, quite similar to Scarlet Turnip White Tip as to size and time of maturity, only the Sparkler is more round or ball-shaped, and the white extends farther up the Radish, making a more attractive bulb.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

10-lb. lots, 80c per lb.



White Icicle

**SCARLET TURNIP WHITE TIPPED.** 25 days. Round, deep scarlet, shading to a white tip at the bottom. Very early.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

**CRIMSON GIANT.** 28 days. Larger than any other extra early variety but does not become pithy. Crimson-carmine. Turnip-shaped, flesh firm, crisp and tender.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid. 10-lb. lots, 80c per lb.

## The Best Winter Radishes

**WHITE WINTER.** (Celestial.) 60 days. Roots 6 to 8 inches long, thick, cylindrical and smooth, with a beautiful white skin and flesh, the whitest and least pungent of the winter Radishes.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

10-lb. lots, 80c per lb.

**CHINESE ROSE WINTER.** 52 days. Roots 4 or 5 inches long, blunt at both ends, about 2 inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best winter sorts.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

10-lb. lots, 80c per lb.

**ROUND BLACK SPANISH.** 56 days. Round, 3 to 4 inches in diameter. Skin almost black; flesh white, crisp and pungent.

Oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

10-lb. lots, 80c per lb.



Celestial  
White Winter

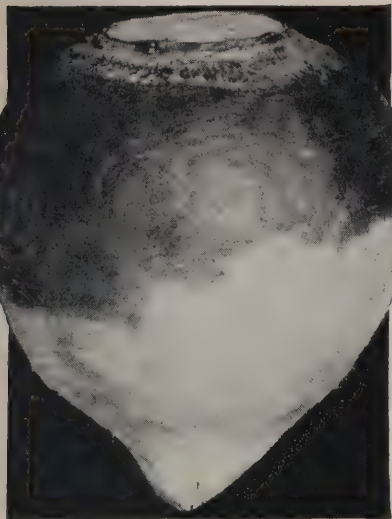


French Breakfast Radishes

**NOTICE:** We do not prepay postage on RADISH seed at the 10-lb. quantity price. Please refer to page 3 for the parcel post rate and make allowance for packing and package.

All prices quoted herein are subject to change without notice





American Purple Top Rutabaga

## Rutabagas

Mature in 100 days.

**AMERICAN PURPLE TOP.** A hardy, productive variety with small neck; roots large, globe-shaped, with small tap roots, bright yellow in color with purple top, solid, tender and sweet. Our strain is the best available.

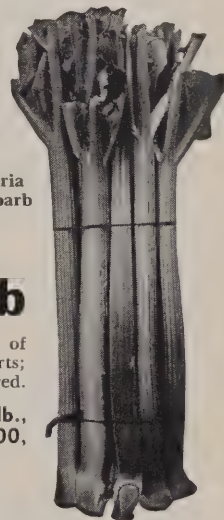
Oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

**CANADIAN GEM.** (Laurentian Neckless). A strain of Purple Top Swede, much preferred in Canada. Tops short, practically neckless. Roots large, spherical, purplish red above ground, light yellow below. Flesh creamy yellow, firm, mild and sweet.

Oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.



Salsify



Victoria Rhubarb

## Salsify or Vegetable Oyster

**CULTURAL DIRECTIONS.** One ounce to 75 feet of drill; 5 or 6 pounds to the acre. Sow the seed early in the spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. Like Parsnips, they may be left in the ground all winter and dug as soon as the ground is thawed. Salsify prefers a deep, rich sandy soil.

**MAMMOTH SANDWICH ISLAND.** 150 days. A splendid variety producing large, thick, tapering roots. Very uniform, mild and delicious in flavor. A popular sort with the market gardeners.

Oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

## Rhubarb

**VICTORIA.** One of the best market sorts; stalks a beautiful red.

Oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

## Aromatic, Medicinal and Pot Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.



Sage

**ANISE.** Seeds used for flavoring bread, cake, cookies and candy. (h-A 14 inches.)

**BALM.** Leaves have a lemony, minty fragrance and give a fine flavor to fruit drinks. (h-P 1½ ft.)

**BASIL.** Sweet, spicy, flower-like tasting leaves, delicious in green salads, tomato and cheese dishes and soups. (h-A 1 ft.)

**CARAWAY.** Seeds used for flavoring cake, cookies, bread, cheese and baked apples. (h-B 1 to 2 ft.)

**CELERIAC or TURNIP ROOTED CELERY.** Large round smooth tubers. For celery flavor in soups, stews and salads.

**CHERVIL.** Leaves used as parsley for flavoring and garnishing. (h-A 10 inches.)

**CHICORY.** (French Endive.) Used extensively for salads. The new leaf growth forms a compact blanched head with broad crisp leaves having a mildly acrid flavor.

**CHIVES.** Grass-like leaves with appetizing flavor like mild onions. Use in salads, cottage cheese, and many cooked dishes. Oz., \$1.75.

**DANDELION.** Improved thick leaf. Thick leaves of deep green. Compact and upright tuft at center. Superior to the uncultivated plant.

**DILL.** Mammoth. Seeds and leaves famous for use in dill pickles. (h-A 2 to 2½ ft.)

**Pkt., 15c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.**  
**FLORENCE FENNEL.** Sweet. Fresh tender stems eaten raw like Celery or in salads, seeds flavor candy and medicines. (h-B 2 to 4 ft.)

**HOREHOUND.** Leaves and juice of flowering tops flavor cough syrups and candy.

**HYSSOP.** Often planted near bee hives to give fine taste to honey. (h-P 1½ ft.)

**LAVENDER.** (Spike Lavender.) Dried flowers used to scent linens. (h-P 2 ft.)

**MARJORAM, SWEET.** Young tender leaves, good in salads and to flavor soups. Used as an annual. 2 ft.

**RUE.** Bitter herb to be used sparingly for seasoning. (h-P 16 in. to 2 ft.)

**SAFFRON.** The yellow, thistle-like flowers picked while in full bloom, are used for coloring and flavoring. (h-A 1 to 3 ft.)

**SAGE.** Most extensively used of any herb. An indispensable perennial. Very aromatic. 1 oz., \$1.00.

**SUMMER SAVORY.** Leaves and flowering tops popular in dressings, boiled with peas and snap beans, used with other herbs in salads and as flavoring for many meat dishes. (h-A 8 to 10 inches.)

**THYME.** Sharp aromatic flavor good in combination with other herbs in salads, sandwiches, etc. (h-P 8 to 10 inches.)

**WORMWOOD.** Next to Rue the bitterest of all herbs. Chiefly used in medicines. (h-P 3 to 5 ft.)

All of the above unless otherwise priced come in packets only at 15c each

All prices quoted herein are subject to change without notice.



# Spinach

## Improved Varieties

Due to increased postage rates, SPINACH is not postpaid beyond the second zone, and postage must be added on all orders to be sent by mail. Follow the parcel post rate chart on page 3.

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; eight to ten pounds per acre. Sow early for spring crop; in August for fall use; and if sown from the middle to last of September, and protected during the winter with a light covering of straw, it will be ready for use very early in the spring.

A fertilizer high in nitrogen and phosphate is recommended, especially for sandy soils.

During warm weather, germination may be greatly aided by firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

**★LONG STANDING BLOOMSDALE.** 42 days. It is early and hardy, and a decided improvement on the old strain. Will stand 10 to 14 days before bolting to seed; has a heavier leaf texture, more crumpled or savoyed, and will also resist the heat much better. Suitable for quick freezing.

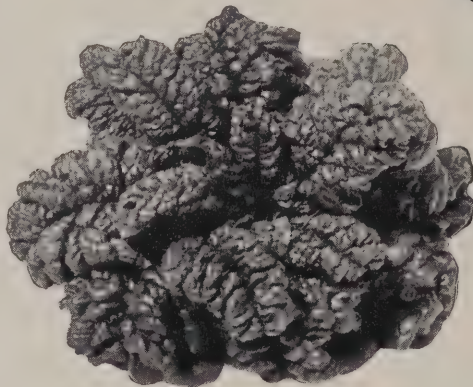
Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**HEAVY PACK.** 48 days. This is a good strain of Viking. Plants are strong and vigorous with large, medium green, slightly crumpled thick leaves on short stalks. Color is intermediate between Nobel and King of Denmark. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**AMERICA.** 48 days. A new variety from a cross between Viking and Bloomsdale Longstanding. Leaves are dark green, savoyed and thick. Withstands heat better than others of this type and is slower to bolt.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.



Virginia Savoy Spinach



Long Standing  
Bloomsdale

**VIKING.** 45 days. This new variety may well be described as a dark green Nobel. Excellent for market gardens and canning. Plant large, spreading, vigorous, thick and dark green. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**★KING OF DENMARK.** 48 days. Imported seed to meet the demands of the most critical trade. A standard variety for market gardeners, for spring planting. It will stand longer than any other variety before going to seed. Leaves large, rounded, and somewhat blistered. Color

very deep green. Heavy yielder and excellent quality. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**ROUND SUMMER THICK LEAVED.** 45 days. An old standard. Grand Rapids growers use this variety very largely for main crop for spring, summer and fall. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**GIANT NOBEL.** 45 days. An erect, vigorous growing, long standing Spinach, slow to run to seed. Leaves large, unusually broad, firm and thick, with rounded top. Smooth, medium green in color and the largest of any Spinach. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

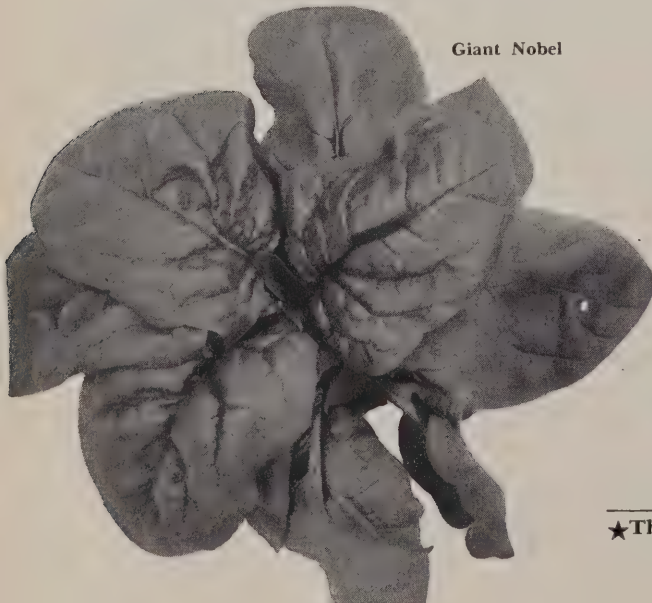
**VIRGINIA SAVOY BLIGHT-RESISTANT.** 40 days. Virginia Savoy is characterized by the large leaves and general Flanders type of growth. The low growing, wide-spreading habit makes it most desirable for winter Spinach. Plants of this type attain a very large size in late fall and carry well into early spring. A single plant often weighs more than a pound. Suitable for quick freezing.

Oz., 15c; ¼ lb., 25c; lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.00; 25 lbs. or more, 40c per lb.

**NEW ZEALAND.** 60 days. Entirely distinct from the other varieties. Plant tall and spreading, leaves medium green, rather small and pointed. Prickly seeded.

Oz., 15c; ¼ lb., 25c; 1 lb., 75c.

Giant Nobel



★This variety recommended by Michigan State University.



# Squash

**CULTURAL DIRECTIONS.** For summer Squash, one ounce to 25 hills; 2 to 3 pounds per acre. For winter Squash, one ounce to 10 hills; about 3 pounds per acre. After danger of frost is past, plant 8 to 10 seeds to the hill for summer sorts, about 4 feet apart, the last of May; and winter varieties in hills about 8 feet apart, from the middle of June to July first. Do not bruise or break the stems of winter Squash when gathering. Store in a cool, dry place. Dust with pyrocid No. 10 or rotenone to control vine borer.

**EARLY PROLIFIC STRAIGHTNECK.** 50 days. A high yielding summer Squash. Fruits straight, smooth, and of delicate creamy color. Will grow 12 to 14 inches long but can be eaten when smaller. Quality unsurpassed.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.

**GIANT SUMMER CROOKNECK.** 55 days. The largest and one of the earliest summer varieties; fruit often 2 to 2½ ft. long, very warty and deep orange in color.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.

**GOLDEN SUMMER CROOKNECK.** 55 days. A standard early and productive summer Squash; fruits about a foot long, moderately warted and of bright yellow color.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.85, postpaid.

**CASERTA.** 58 days. An early bush type Squash, producing fruits at least a week earlier than Cocozella. Earliness and high productivity should make this a favorite for market and home garden. Fruits, when young are grayish green, striped with darker green; at maturity fruits average 14 to 16 inches.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

**ZUCCHINI.** 65 days. Straight, almost cylindrical, becoming 18 inches long and 4 inches in diameter, medium green with grayish green mottling. In best edible condition when 6 to 8 inches long.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

**ZUCCHINI, DARK GREEN.** (Black Zucchini). 65 days. This is considered more desirable than the older type which it resembles in all respects except color. Fruits smooth, cylindrical, rich dark green, no striping or mottling.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

**BANANA.** (Blue.) 110 days. A prolific oblong variety 20 inches long by 5½ inches in diameter, nearly cylindrical, convex tapering ends, smooth skinned, end thin and medium hard, slate-blue-green in color. Flesh is light orange-yellow, thick, firm, solid, dry, free from fiber or stringiness. A productive home and market garden Squash with good keeping qualities.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

## The Four Hubbards

**GOLDEN HUBBARD.** 100 days. Similar to the Old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange-red; flesh deep orange, fine quality; good keeper.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

**★IMPROVED HUBBARD.** 105 days. The standard winter Squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine grained, thick and dry.

Oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

**★CHICAGO WARTED HUBBARD.** 105 days. Similar in quality and form to the Hubbard, but fruit larger and a little later.

Oz., 25c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

**BLUE HUBBARD.** 105 days. A new type of Hubbard Squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell.

Oz., 25c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

**COCOZELLA DI NAPOLI.** (Italian Vegetable Marrow.) 60 days.

Oz., 20c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**EARLY WHITE BUSH SCALLOP.** 60 days. Very early summer Squash.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

**EARLY YELLOW BUSH SCALLOP.** 54 days. A true bush but larger than the foregoing.

Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

**MAMMOTH TABLE QUEEN.** 90 days. Similar to the regular Table Queen Squash, but larger in size. The quality is unsurpassed and it is a wonderful addition. Much in demand by both home and market gardeners.

Oz., 20c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**TABLE QUEEN** (Acorn or Des Moines.) 80 days. Extremely prolific; one of the most popular for home, market, garden and shipping. Fruit pointed acorn shape; 5½ inches long and 4 inches through, uniformly ridged; skin smooth, dark green; shell thin; flesh light yellow, bakes dry and sweet. Just right for cutting in half, baking and served to two people.

Oz., 20c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**SILVER BELL.** 100 days. Delicious Sweet Potato flavor, small size, and long-keeping qualities makes this distinct new Squash a good home and garden variety. Fruits are smooth, silvery blue-gray, short bell-shaped and average 3 to 4 pounds per fruit. Skin of fruits is thin but hard.

Oz., 35c; ¼ lb., \$1.10; 1 lb., \$3.25, postpaid.

**DELICIOUS.** 103 days. The standard of excellence in winter Squashes. Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth rind, thin but hard; flesh extremely thick, bright yellow, fine grained, dry, without fiber, of highest quality.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**GOLDEN DELICIOUS.** 103 days. Valuable for canners because of high starch content and the bright red-orange color of the exterior. In shape and season practically the same as the original Delicious.

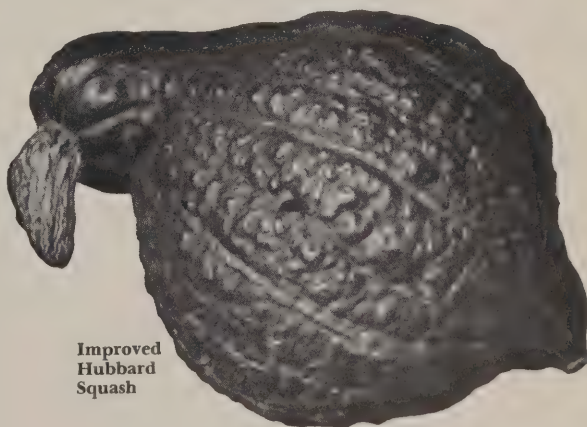
Oz., 20c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**BUTTERCUP** (Turk's Cap). 110 days. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed Squash of good storage and eating qualities.

Oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

**BUTTERNUT.** 90 days. A recent introduction which has become very popular in the New England states. Fruits 10 to 12 inches long with neck of about 4 inches in diameter which is solid flesh; the seed cavity is located in the lower bowl-shaped end. Skin light creamy brown, flesh yellow, fine grained and of excellent quality. Matures early and is a good keeper.

Oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



Improved  
Hubbard  
Squash

**CUCUZZI.** 68 days. Not a true Squash, but an edible Gourd usually used like the long marrow Squashes. Fruits slender, 2 to 3 feet long and 3 inches in diameter at the widest part. Color soft light green.

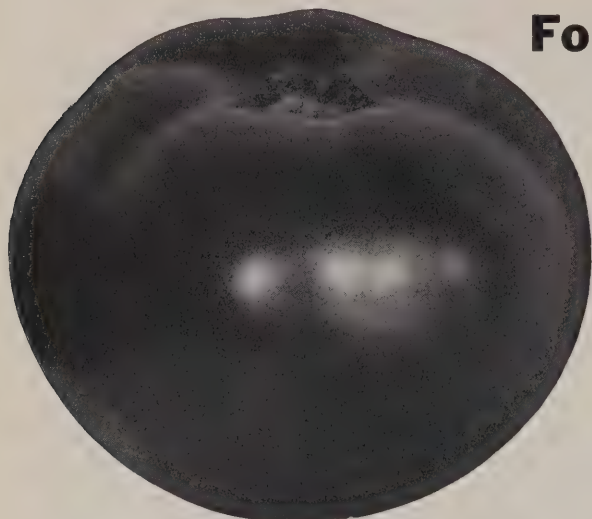
Oz., 90c; ¼ lb., \$3.00; 1 lb., \$9.00, postpaid.

All prices quoted herein are subject to change without notice



## Forcing Varieties of Tomatoes

### Grown in Greenhouses Everywhere



Michigan State Forcing Tomato

**MICHIGAN STATE FORCING.** 75 days. An excellent greenhouse variety and a vigorous grower with dark green foliage. Especially attractive medium size fruits (4 to 5 ounces) are borne in clusters of five to eleven. Stem cavity is small, shallow and very smooth. Blossom end well rounded with a very small scar, the outer walls of fruit are thicker, and the firmness of the fruit makes it possible to allow them to ripen on the vine without loss to the grower. Many growers have in late years done remarkably well with this variety for outdoor growing and it is to be recommended.

**Oz., \$1.10; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.**

See page 33 for Spartan Hybrid and Northern Hybrid forcing Tomatoes. Also other varieties.

## Standard Varieties of Tomatoes

**EARLY WONDER.** Is a new early BIG tomato. Smooth, mild, meaty, uniform, deep scarlet fruit bearing in 58 days from setting plants. Fruits average 6 ozs. with a peck or more to the plant. Plants medium small for 2 ft. apart planting.

**Pkt., 25c; 1/2 oz., 40c; 1 oz., 75c; 1/4 lb., \$2.35; 1 lb., \$7.00, postpaid.**

**EARLY CHATHAM.** 61 days. Fruits average five to the pound, ripen evenly and are free from cracking. The plants are restricted and are not vigorous enough to stand severe checks in growth. Matures very quickly. For best results plant seed about April 1st.

**Oz., \$2.00; 1/4 lb., \$6.00, 1 lb., \$18.00, postpaid.**

**EARLIANA.** 64 days. The most productive, first early red Tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet.

**Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.**

**VICTOR.** "All-America Selections." 65 days. Awarded Bronze Medal. This Tomato is a dwarf self-topping variety. It can be planted close, 5 feet by 3 feet. It sets fruit when other varieties fail. Is extra early, even ripening, with small vines. Color is uniform, scarlet and has a very noted smoothness of skin. A very solid Tomato that does not crack and is a good shipper.

**Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.**

**VALIANT.** 67 days. An early market variety. Vines sparse and open. The fruits, weighing about 8 ounces, are smooth, deep and brilliant scarlet in color.

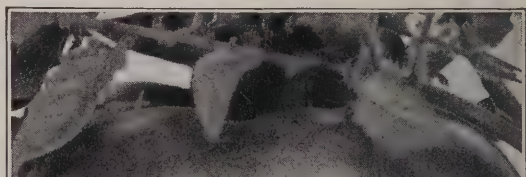
**Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.**

**SIOUX or EARLY RED.** 68 days. This early variety possesses the uniform color gene. Fruit ripens from a characteristic whitish green color to deep scarlet. Vines medium size, somewhat open, with foliage of medium texture and density. Very productive. Fruit is medium size, almost globe-shaped, scarlet, of fine quality and flavor. Flesh firm with thick walls.

**Oz., 90c; 1/4 lb., \$2.70; 1 lb., \$8.00, postpaid.**

**MARGLOBE.** Certified. The Wilt and Nailhead Rust-Resistant Sort. 75 days. Was produced by crossing Livingston's Globe with one or more other varieties. It is a vigorous grower whether in greenhouse or field. A bright red in color, of large size, almost round, and very productive. It is very promising.

**Oz., 75c; 1/4 lb., \$2.50; 1 lb., \$7.50, postpaid.**



Marglobe Tomato



**BREAK O' DAY.** 70 days. The earliest disease-resistant, scarlet-fruited, meaty Tomato yet introduced; 10 to 12 days earlier than Marglobe and very productive.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

**BALTIMORE CERTIFIED.** 81 days. Second early and main crop variety. Deep scarlet-red in color, vigorous and very productive. Preferred by canners on account of its heavy yield.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

**STOKESDALE.** Certified. 70 days. A second-early scarlet fruited variety maturing about a week earlier than Marglobe. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored.

Oz., 90c; ¼ lb., \$2.70; 1 lb., \$8.00, postpaid.

**GOLDEN JUBILEE.** 72 days. Short stemmed, sturdy and compact, bearing over a long period. Fruit golden yellow, globular, thick walled, of mild flavor and good quality. Medium size.

Oz., \$1.25; ¼ lb., \$3.75; 1 lb., \$11.00, postpaid.

**BONNY BEST.** Certified. 73 days. Unexcelled as a general purpose Tomato; particularly valuable for forcing under glass as a canning variety in northern sections. Fruits evenly colored bright deep scarlet-red; medium large; flattened globe-shaped; smooth and firm.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

★**JOHN BAER.** Certified. 73 days. An early, productive, red Tomato.

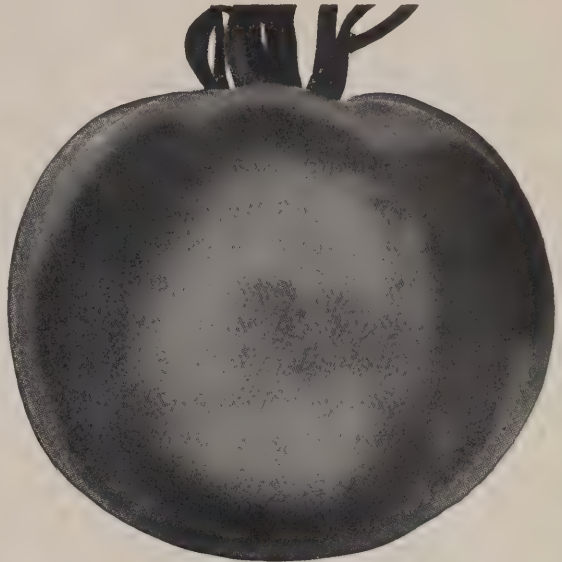
Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

**NEW STONE.** 85 days. The standard and general favorite with truckers and canners. Always dependable, very vigorous and productive; fruits round, large, solid, smooth, and deep red in color.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.

**EARLY RUTGERS.** Certified. 73 days. This is an early strain and has a thick outer and inner wall of solid meat. Globe shaped, scarlet-red in color, resembling Marglobe. The Early Rutgers Tomato is in great demand for all purposes.

Oz., 70c; ¼ lb., \$2.25; 1 lb., \$7.00, postpaid.



Pritchard or Scarlet Topper Tomato

**PRITCHARD or SCARLET TOPPER.** Certified. 75 days. Very productive early sort. The splendid, globe-shaped, smooth fruits grow to a good size and attain an attractive bright red color. Flesh firm, mild flavored, free from acidity, with no core and small seed cavity. Wilt resistant.

Oz., 70c; ¼ lb., \$1.25; 1 lb., \$7.00, postpaid.

**DWARF STONE.** 81 days. The best of the dwarf Tomatoes. Fruits large, smooth, very solid, of a deep scarlet color.

Oz., 90c; ¼ lb., \$2.70; 1 lb., \$8.00, postpaid.

**BLOSSOM SET** (the no seed Hormone) makes Tomatoes ripen one to three weeks earlier. It is easy to use. Just spray the blossoms as they open.

Oz., 75c; pt., \$1.75, prepaid.



CERTIFIED Bonny Best Tomato





**CLIMBING TRIP-L-CROP.** Is by far the most productive of all Tomatoes, often producing 2 to 3 bushels from one vine. The plants are of rank growth, sending out long runners capable of setting clusters of fruit at each joint. The beautiful large crimson fruits average  $3\frac{1}{2}$  inches across and  $2\frac{3}{4}$  inches deep. The fruits are solid with meaty centers surrounded by small seed cells which are separated by solid divisions, which makes the tomato unexcelled for both slicing and canning. Vines grow rapidly to a height of 10 to 18 ft. when grown on a trellis.

$\frac{1}{2}$  oz., 85c; 1 oz., \$1.50;  $\frac{1}{4}$  lb., \$4.50, postpaid.

**OXHEART.** 90 days. An attractively pink-skinned variety. It is exceedingly smooth and tender and almost seedless. It has that delicious mild flavor. Rich soil adds greatly to its productiveness. A late variety.

Oz., \$1.30;  $\frac{1}{4}$  lb., \$4.00; 1 lb., \$12.50, postpaid.



Oxheart Tomato

★**LONGRED.** 75 days. Developed at the N. Y. Experiment Station. Plant is medium in size, with many branches; leaves small but abundant. Fruits are globular to deep globular, of medium size, solid and well colored. This is not a long Tomato, as the name might signify. It is a globular variety the same as most other Tomatoes but the introducers called it Long Red as they claim it stays red longer, before rotting than most other varieties.

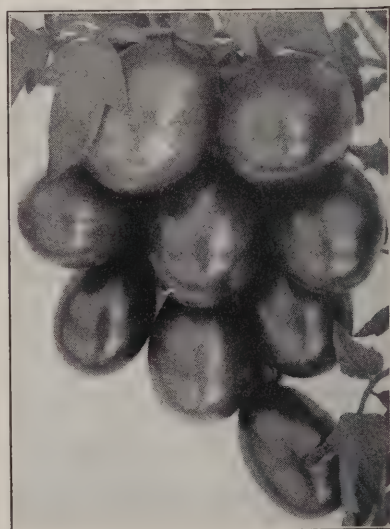
Oz., 90c;  $\frac{1}{4}$  lb., \$2.70; 1 lb., \$8.50, postpaid.

**PONDEROSA.** 85 days. A very large, purple-fruited Tomato; solid, with but few seeds, and no acid. Fine for slicing.

Oz., 95c;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$9.50, postpaid.

**BEEFSTEAK.** (Red Ponderosa.) 90 days. A wilt-resistant, large variety for home and market garden use. Plant is open in habit of growth, heavy. The fruit is large, flat, scarlet, rather smooth.

Oz., 90c;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$9.00, postpaid.



San Marzano Tomato

**SAN MARZANO.** (Italian Paste Tomato). For preserves, puree, and solid pack canning. Two-celled fruit,  $3\frac{1}{2}$  inches long and  $1\frac{1}{2}$  inches thick. Color deep red, very little juice, mild in flavor. Fruits are borne in clusters.

Oz., \$1.00;  $\frac{1}{4}$  lb., \$3.50; 1 lb., \$10.00, postpaid.

**SMALL FRUITED TOMATOES.** Used for pickles, preserves, canning, etc. Easily grown and yield well. Yellow Plum, Red Pear, Yellow Pear, and Red Cherry. Price of any of the four varieties:

$\frac{1}{4}$  oz., 30c; oz., \$1.00, postpaid. Special: One pkt. each of these four varieties for 50c, postpaid.

### Burpee's "BIG BOY" (Giant Hybrid Tomato)

78 days after plants are set. Fruit is the largest of a true first generation F<sub>1</sub> Hybrid. Many weigh one pound and more, some two pounds and over. Perfectly smooth, firm, scarlet-red, thick walled fruit with bright red meaty flesh of fine flavor and excellent quality. Valuable BIG Tomato for the home and market grower, especially roadside sales.

$\frac{1}{16}$  oz., \$3.25;  $\frac{1}{8}$  oz., \$5.50;  $\frac{1}{4}$  oz., \$10.00;  
1 oz., \$33.00, postpaid.



# F<sub>2</sub> Varieties from Hybrids

**WHAT IS AN F<sub>2</sub> TOMATO?** An F<sub>2</sub> Tomato is the second generation of an F<sub>1</sub> Hybrid. An amendment to the Federal Seeds Act, forbids reference of an F<sub>2</sub> as a hybrid. There are many advantages of an F<sub>2</sub> over the usual open pollinated type. An F<sub>2</sub> with well chosen parents usually brings more money. Other advantages include—a longer harvest, greater yield per acre, higher quality, more disease resistance and more crack resistance.

**TOMATO FOREMOST E-21.** 73 days. Fruits are almost globular, deep scarlet-red, larger than Stokesdale and just about as large as Rutgers. They are notably resistant to cracking and blossom-end scars. The intermediate vine has somewhat less spread than Rutgers, but the plants are extremely vigorous and heavily productive. The fruit sizes have been well maintained right up to the end of the season.

¼ oz., 80c; ½ oz., \$1.25; 1 oz., \$2.50; ¼ lb., \$9.00; ½ lb., \$17.50; 1 lb., \$35.00, postpaid.

**STOKESCROSS No. 4.** 75 days. This F<sub>2</sub> of a hybrid sets readily and has a fast maturity. Fruits averaging 5 ounces. Vine is lighter than Rutgers and is recommended for the northern tier of states and Canada. Free from cracking and an excellent quality. Used for marketing and processing.

¼ oz., \$1.25; ½ oz., \$2.00; 1 oz., \$3.75;  
4 ozs., \$10.00, postpaid.

**STOKESCROSS No. 1.** 70 days. A new F<sub>2</sub> of a hybrid, producing fruits averaging 5 to 6 ounces. A large proportion of the crop matures in the extra early season. For the early market the quality is superb. A proven money maker in the northern tier of states.

¼ oz., \$1.25; ½ oz., \$2.00; 1 oz., \$3.75;  
4 ozs., \$10.00, postpaid.

**STOKESCROSS No. 6.** 78 days. A new F<sub>2</sub> of a hybrid introduced in 1956 by the Stokes Seed Co. Fruits 5½ ounces, about 80% crack resistant and has shown some resistance to fusarium wilt.

¼ oz., \$1.25; ½ oz., \$2.00; 1 oz., \$3.75;  
4 ozs., \$10.00, postpaid.

Available in larger quantities, and special prices quoted on request.

## Hybrid Tomatoes For Forcing

"Just a Little More of Everything"

Two important Hybrid Tomatoes, bred and grown by Mr. Roy H. Burghart, and introduced to the trade as a better and more vigorous Tomato that is more resistant to wilt and disease. They are ideal greenhouse forcing hybrids, and have "just a little more of everything" that is desirable in a Tomato. With increased production at a lower cost, we are able to offer these at lower prices, enabling greater distribution and a better crop at lower cost.

**SPARTAN HYBRID.** This is a cross between Michigan State Forcing and Cooper's Special, and is an excellent greenhouse hybrid, a week earlier than the parents and about 20 percent more productive in weight and fruit. Color red, globular shape, medium size fruit, 5 to 6 ounces in weight, about three to pound; growing in clusters of six to eight. A meaty Tomato, small seed cavity. Vine is more open, giving very uniform ripening of fruit. Being extra vigorous in growth, it is more resistant to both wilt and disease.

50 seeds \$1.50; 100 seeds \$2.00; 250 seeds \$3.00; 500 seeds \$6.00; 1000 seeds \$10.00; ¼ oz., \$15.00; ½ oz., \$27.50; 1 oz., \$50.00, postpaid.

**TOMATO. Michigan-Ohio Hybrid.** A new F<sub>1</sub> Tomato for greenhouse production. This cross was first made by Gortsema Bros. of Grand Rapids in 1950 and has been used in increasing volume each succeeding year for their crop as well as by other growers in this area. It has been carefully evaluated in comparative tests by Dr. S. H. Wittwer of the Michigan State University, for 3 years, where it has consistently proven superior to four of the leading varieties commonly grown in the midwest and Canada. The plant is large, vigorous and indeterminate, being easily pruned and trained to a single stalk. Because of its prolific fruiting on the lower clusters, this hybrid demands abundant water and nutrient supply after the first clusters have set fruit so that it may continue production at a high level, to the end of the crop. The fruit is red in color, globular in shape, and remarkably uniform in size. It is of excellent

50 seeds \$1.50; 100 seeds \$2.00; 250 seeds \$3.00; 500 seeds \$6.00; 1000 seeds \$10.00; ¼ oz., \$15.00; ½ oz., \$27.50; 1 oz., \$50.00, postpaid.

**TOMATO. Early Hy-Cross Hybrid.** 65 days. Medium large, high quality fruit. Vine, indeterminate. Medium large, open vine with good foliage cover. Fruit is dark red, medium large, very smooth, deep globe, of excellent mild flavor and solid flesh, small core, highest quality. EARLY

50 seeds 35c; 100 seeds 60c; 250 seeds \$1.25; 500 seeds \$2.00; 1000 seeds \$3.00; ¼ oz., \$4.75; ½ oz., \$9.00; 1 oz., \$17.00; ¼ lb., \$55.00; 1 lb., \$200.00, postpaid.

**NORTHERN HYBRID.** This is a cross between Michigan State Forcing and Sutton's Best of All, and is an ideal greenhouse hybrid for northern growing, especially in CANADA and northern United States. In productivity it is similar to Spartan Hybrid, but is more vigorous in growing, particularly in dark fall and winter weather which is prevalent in the North. Vine is open, permitting uniform ripening. Fruit is red in color, globular in shape, but is smaller, 4 to 5 ounces of solid fruit in clusters of ten to twelve. More resistant to wilt and disease on account of its vigorous growth.

quality with a good interior color, thick outer walls and is comparable to Michigan State Forcing for firmness. In this respect it is superior to Spartan Hybrid. Its ability to set fruit in dark weather is also superior to Spartan Hybrid and the tests at Michigan State University as well as in commercial greenhouses have proven its ability to out-produce those varieties commonly in use. The most outstanding characteristic of this new Hybrid is its extremely high resistance to common Fusarium Wilt. The seed we sell has been grown by Roy Burghart of Greenville, Mich., who states: "This new hybrid possesses enough good qualities to supplant the Spartan Hybrid even without its resistance to the Fusarium Wilt. The wilt resistance factor will be a life saver for many greenhouses and I believe will substantially reduce soil steaming costs for nearly all greenhouse Tomato growers."

HY-CROSS has proved to be of great value as an outstanding home garden nursery Tomato for central, eastern and northern United States. It is produced from male sterile parent which makes the seed less expensive, earlier than Earliana or Valiant, bred for highest quality fruit yield and earliness.



# Turnips

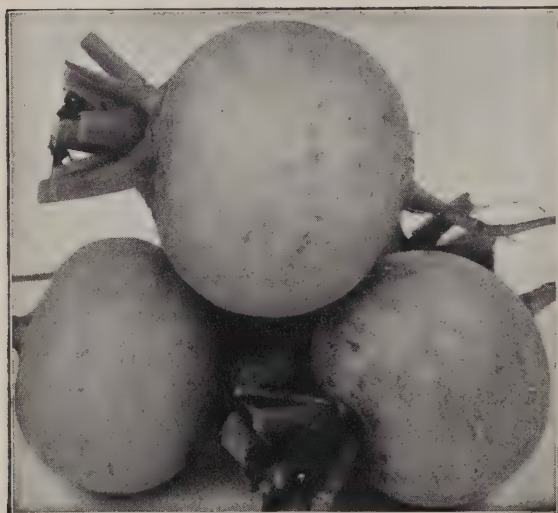
**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.

**EXTRA EARLY WHITE MILAN.** 40 days. The earliest bulbs, small, clear white, and flat. One of the best for early bunching.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**

★**PURPLE TOP WHITE GLOBE.** 55 days. Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive Turnip and best seller.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**



Yellow Globe Turnip

**YELLOW GLOBE.** 75 days. A round, smooth, light yellow variety of medium size and good quality.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**



White Egg Turnip

**PURPLE TOP STRAP LEAVED.** 45 days. A very early, flat variety, medium size; purple or red above ground and white below.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**

**GOLDEN BALL.** 65 days. Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**

**COW HORN.** 65 days. Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer.

**Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.**

**SEVEN TOP.** 45 days. For Turnip greens. Extremely hardy foliage Turnip for table or forage use. Crown sends up numerous shoots which are excellent for greens.

**Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.**



Purple Top White Globe Turnip

All Prices quoted herein are subject to change without notice.





Canna

## Cannas

These new varieties with large flowers are unequalled for creating a colorful show from July till frost. They do best in full sun and respond quickly to feeding.

**HUNGARIA.** 3½ ft. Best pink Canna. Leaves bluish green, never burn. Flowers are large with big petals.

15c each; \$1.75 per doz., postpaid.

**KING HUMBERT.** 4 ft. Scarlet flowers; bronze leaves. A "Gold Medal" Sensation.

15c each; \$1.75 per doz., postpaid.

**THE PRESIDENT.** 4 ft. A rich, glowing scarlet on strong stalks; green foliage.

15c each; \$1.75 per doz., postpaid.

**YELLOW KING HUMBERT.** 4 ft. Foliage a very dark green; flowers deep rich yellow, softly spotted and blotched with bright red.

15c each; \$1.75 per doz., postpaid.

## Tuberoses, Double

(Polianthes Tuberosa)

**EXCELSIOR DWARF PEARL, DOUBLE.** Easily recognized by its exquisite fragrance and beautiful flower spike; long stems, making it an ideal cut flower. Top size.

20c each; \$2.00 per doz., postpaid.

## Begonias

**Tuberous-Rooted**

Unexcelled for summer bedding.

**CAMELLIA-FLOWERED DOUBLE.** Crimson, copper, salmon, scarlet, yellow, orange, pink and white. Size 2 inches and up. Large size. Kindly give the colors wanted.

Each 35c; 6 for \$2.00; 1 doz., \$4.00;  
\$25.00 per 100, postpaid.



Tuberous-Rooted Begonia



Tuberoses

Prices Quoted On This Page are Subject to Change Without Notice.



# Tulips, Hyacinths, Crocus, Daffodils, Narcissus for Fall Planting

These are imported bulbs from the Netherlands, and will not be available until September 15th, 1958, at which time we will be glad to quote prices on request.

## Tulips, Darwin (Top Size)

**BARTIGON.** Fiery crimson with pure white base. Strong stem. Excellent for forcing. 24 inches.

**BLEU AIMABLE.** Bright lilac-blue, shaded steel-blue, inside darker with a blue base. 29 inches.

**CLARA BUTT.** Clear salmon-pink with a white base flecked blue-gray. 26 inches tall. An old favorite.

**GOLDEN AGE.** Large, deep golden yellow, slightly shaded orange when fully developed. 26 inches tall. Fine shape.

**LA TULIPE NOIRE.** The black Tulip. Deep maroon-black. Definitely the closest to a real black. 26 inches tall.

**PRIDE OF HAARLEM.** One of the best known and most popular varieties. Brilliant cerise-scarlet with a blue base. 28 inches tall.

**PRINCESS ELIZABETH.** Lovely soft rose-pink with lighter edges and a white base. Good forcing variety also 26 inches tall.

**CHARLES NEEDHAM.** Brilliant scarlet with blue base. One of the best new varieties with a strong stem 24 inches tall.

**THE BISHOP.** Beautiful deep violet with a small, dull blue base edged white and purple anthers. 29 inches tall.

**ZWANENBERG.** Large pure white with black anthers. Tall stem. A very popular variety. 28 inches tall.



Darwin Tulip

## Hyacinths (17-18 cm.)

**CITY OF HAARLEM.** Large pure yellow. Compact blossom of fine form.

**GRAND MAITRE.** Deep lavender-blue. Very large spike.

**LA VICTOIRE.** Bright carmine-rose. Large spike and a very fine, sturdy stem.

**L'INNOCENCE.** Pure white. Large spike with large bells.

**QUEEN OF THE PINKS.** Bright rose-pink. Enormous, compact spike.

**KING OF THE BLUES.** Rich dark blue. Splendid spike with large bells.

## AS WELL AS MANY OTHERS



Hyacinths

## Narcissus and Daffodils

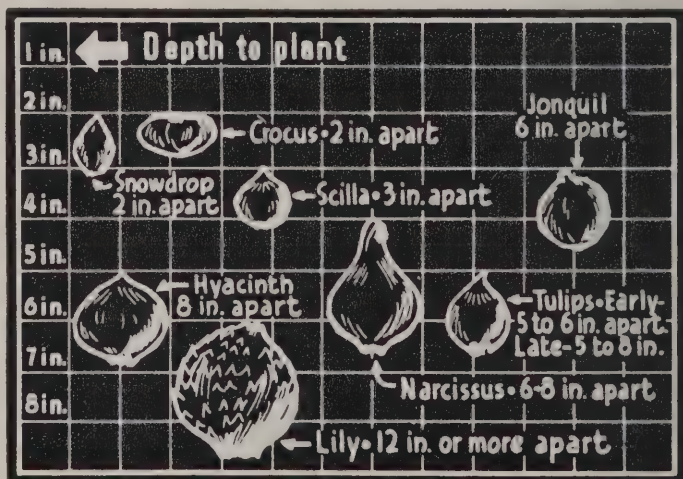
(No. 1 bulbs)

**KING ALFRED.** Golden yellow. Broad perianth and a large trumpet frilled at the mouth. Popular. 16 inches.

**MRS. E. H. KRELAGE.** Pure white perianth and a creamy white trumpet recurving at the brim. 20 inches.

**MUSIC HALL.** Pure white perianth and a gold-yellow trumpet. 18 inches.

**LAURENS KOSTER.** (Poetaz). Creamy white perianth and a lemon-yellow center. Very fragrant. Several flowers on a stem. 14 inches.







Picardy

# Gladiolus

## OUTSTANDING VARIETIES

**Price: 75c per doz.; \$5.75 per 100**

State inspected, treated with an insecticide and fungicide, ready to plant.

**ABU HASSAN.** Dark violet-blue; strong, slim stems.

**BENJAMIN BRITTEN.** Tall; deep lavender.

**BLUE BEAUTY.** Exhibition. Light blue shading darker toward the edges.

**BURMA.** Exhibition. Large ruffled deep rose.

**ELIZABETH THE QUEEN.** Exhibition. Giant ruffled lavender.

**FLORENCE NIGHTINGALE.** Fine white. Opens 6 to 8 glistening, wavy, 5½-inch florets on tall spikes.

**FRIENDSHIP.** Very early. Flesh toned pure pink.

**HANS VAN MEEGERAN.** Good clear yellow.

**JO WAGENAAR.** Rich and brilliant deep red; white line on lower petal.

**LIEF ERICKSON.** Beautiful ruffled cream.

**MARGARET BEATON.** Large pure white, large red throat spot.

**MARY HOUSTON.** Large creamy white, red blotch.

**ORANGE GOLD.** Genuine orange self; smooth, tailored flower on tall stems.

**PALETTE.** Striking combination of vermilion-red with purple throat spot.

**PAUL RUBENS.** Large dark reddish violet, tall stems.

**PHANTOM BEAUTY.** Beautiful light blush-pink, opening up to 12 closely arranged blooms.

**PICARDY.** Exhibition. Delicate apricot-pink. Flowers are all extremely large and of heavy, wax-like substance.

**RED CHARM.** Exhibition. Very attractive shade of medium red. Fast becoming the most popular all-purpose red.

**SALMAN'S SENSATION.** Largest and tallest of the blues.

**SPOTLIGHT.** Decorative. Large deep yellow with red spot. Florets of large size and perfectly placed. One of the finest that is grown.

**SPIC AND SPAN.** Tall, ruffled deep pink; many open.

**UHU.** A colorful smoky.

**VAGABOND PRINCE.** Exhibition. Iridescent garnet-brown with a scarlet spot. Most unusual, and is lovely arranged with scarlets.

**ALL BULBS LISTED ARE SUBJECT TO THE 3% MICHIGAN STATE SALES TAX, and are postpaid anywhere in Michigan.**

Elsewhere, the postage will be extra, and as we cannot tell what the weight will be we would suggest that you send us enough, as any money that is not needed will be promptly refunded. See postal rates on page 3.

## GLADIOLUS MIXTURE

**20 Large Size Bulbs—10 or more varieties in the mixture, giving complete color range—for only . . \$1.00**





# Making a Lawn and Its Care



## HOW TO BUILD A NEW LAWN

Planting Time—Spring, Summer, Fall

**SOIL PREPARATION.** Cultivate soil to a depth of 6 to 8 inches, with garden fork, rototiller, or tractor cultivator. Pulverize surface with garden rake to form a smooth level seed bed.

**FERTILIZING.** Apply lawn food at the same time the lawn is seeded. This complete plant food should be a 10-6-4 formula or something similar and should be applied at only 10 lbs. per 1000 square feet.

**SEEDING.** Broadcast lawn seed at the rate of one pound to 200 square feet. Rake lightly into the soil and firm surface with a lawn roller unless your soil is a heavy clay adobe. A light mulch of weed-free straw or peat moss spread over the lawn after seeding will help keep the soil moist and stimulate better germination.

**WATERING.** If soil is especially dry, soak seed bed thoroughly before seeding. After seeding sprinkle with a fine spray, keeping top soil moist until seedlings are well rooted. Don't allow soil to dry or crust.

**MOWING.** As soon as seedlings are 3 inches high, start cutting with a sharp mower. Keep lawn cut about  $1\frac{1}{2}$  to 2 inches high.

## HOW TO REPAIR AN OLD LAWN

Turn over bare spots to a depth of 4 to 6 inches, adding a good fertilizer and a good loam soil if possible. Rake surface evenly, seed at same rate listed above, firm ground with a roller, unless your soil is heavy clay or adobe, then keep well watered until seedlings are well rooted. Don't let newly seeded spots bake or dry out. To repair thin lawns, vigorously rake the soil surface to prepare a deep bed. Seed at the same rate listed above and cover lightly with rich top soil or peat moss. Water carefully and keep the surface moist until the seedlings become well rooted.

## HOW TO KEEP YOUR LAWN IN GOOD CONDITION

Remember that "grass" is a mass of individual plants, each with its own requirements of food, moisture and sunlight. When Nature's supply fails, the plant protects itself by becoming dormant—its energy retires to the roots and the top dies off leaving your lawn an expanse of dry brown instead of lush green. While sunlight is beyond your control, you can supply food and moisture and it is your job to do so before they are desperately needed. Ninety-five percent of the grass plant foods is carbon, manufactured from carbon dioxide in the air by the chlorophyll in the leaves. The remainder—just as vitally needed, consists of nitrogen, phosphates, potash and minor elements. Commercial fertilizers containing the proper proportions are available. Ask us.

**FERTILIZING.** Apply at least twice a year, early spring and early fall.

**WATERING.** Hot, dry spells can occur any time. Grass will go dormant unless watered. Don't tease your lawn by light frequent sprinkling. Give it a good soaking less often.

**CUTTING.** Mowing chops off part of the food factory in the leaves. Set your mower for not less than  $1\frac{1}{2}$  inches height. In hot weather allow the blades to grow a little longer than usual. This shades the soil, helps retain moisture. It discourages crab grass, a sun loving hot weather plant.



Inasmuch as we mix our own grass mixtures we have the individual grasses for those who want straight grasses in one spot or another.

### Grade "A" Sunny Lawn Mixture

This is our own mixture, containing Merion Kentucky Blue Grass, Fancy Red Top, Red Creeping Fescue, Chewings Fescue, Rye Grass, and 5% pure White Clover. Wonderful results are and have been obtained with this mixture. We use only the very best of seeds obtainable, of lasting value and hardiness, giving you a beautiful and permanent lawn that will last for years.

### Grade "A" Shady Lawn Mixture

Contains Chewings Fescue, Poa Trivialis, Kentucky Blue Grass and Red Top. This mixture is our own, being mixed by ourselves especially for shady spots. We use only the very best seeds obtainable and as more care and attention is required we have used the harder grasses, that will make a dense, thick growth in light soils and a satisfactory lawn in shady places or where sun is available only part of the time.

**KENTUCKY BLUE GRASS.** Perennial. Dark green, medium leaf blade. Cold resistant. Well adapted to northern states, mountainous and cooler localities farther south. A vigorous grower in these localities. Spreads by underground runners. Prefers rich soils. Does poorly on infertile soils, becomes dormant in summer unless well watered and fertilized. Germinates in 3 to 4 weeks, 2,200,000 seeds per pound. Recommended for lawn, fairways, pastures, airports, athletic fields.

**MERION KENTUCKY BLUE GRASS.** An improved strain of regular Kentucky Blue Grass developed by the U. S. Dept. of Agriculture from a strain of Kentucky Blue Grass found on Merion Golf Course near Philadelphia. Dark green color, leaves slightly wider than ordinary Kentucky Blue Grass. Very winter hardy; turns green earlier in the spring and stays green longer in hot weather. Deeper rooted and produces a much thicker turf than ordinary Kentucky Blue Grass. Resists common fungus diseases and will thrive under close mowing. Germination time about the same as Kentucky Blue Grass, but once started Merion is more vigorous and fills in quicker after injury. It needs to be mowed only about half as often as regular. Seed is slightly larger, about 2,000,000 per pound. An excellent grass in lawn seed mixtures and on golf course fairways.

**RED TOP.** Perennial. Quick growing. Medium to fairly wide blade. Deep green. Stands dry soils better than Kentucky Blue Grass. Tolerates poorer soils. Becomes somewhat coarse with age. Fairly cold resistant. Will grow on soils very low in lime. Spreads by underground runners. In lawns will usually last 1 to 3 years. Germinates in about 7 to 8 days. 5,000,000 seeds per pound. Used in lawns, pastures, athletic fields, airports.

**DOMESTIC RYE GRASS.** (Common.) Annual. Shiny wide dark green leaf blade. Vigorous grower. Very competitive to other grasses. Adapted to both rich and poorer soils. Tends to bunch. Becomes rather difficult to cut with a lawn mower. Germinates in about 7 to 8 days. 230,000 seeds per pound. Used for pastures and lawns.

**PERENNIAL RYE GRASS.** Usually not winter-hardy in the northern part of the United States. Shiny, deep green, medium wide leaf blade. Adapted to fairly wide range of soils and soil conditions. Bunches and becomes difficult to mow. Germinates in 7 to 8 days. 230,000 seeds per pound. Used for pastures and lawns.

**WHITE CLOVER.** (Dutch.) Perennial. Low growing broad-leaved legume. Ordinarily long-lived but stands often thinned by diseases and insects. Adds nitrogen to the soil, but is objectionable on fairways because of the large white flower heads. Spreads by above-ground stolons or runners. Thrives best under cool moist conditions in fertile soils with plenty of lime. Germinates in 7 to 12 days. 800,000 seeds per pound. Used in lawns, pastures, parks and meadows.

**POA TRIVIALIS or ROUGH BLUEGRASS.** Primarily a shade grass. A strain of blue grass usually imported from Denmark. Fine leaved, bright yellowish green, not too satisfactory for sunny spots. Spreads by stolons (surface stems) or runners. 2,500,000 seeds per pound.

**CHEWINGS FESCUE.** Perennial. A fine leaved somewhat wiry, bright green grass. Deep rooted. Fairly drought resistant. Does better in poorer acid soils than Kentucky Blue Grass. Does not creep by underground runners. Tends to bunch when thin. Does well in shade or in sun. Occasionally difficult to mow unless lawn mower is well sharpened. Cold resistant. Germinates in 10 to 14 days. 600,000 seeds per pound. Used in lawn, shaded areas, pastures, athletic fields.

**RED CREEPING FESCUE.** Perennial. Fine leaved. Similar in appearance to Chewings Fescue. Doesn't bunch. Spreads by underground runners in exactly the same manner as Kentucky Blue Grass. Adapted to poorer soils. Fairly acid tolerant. Requires less moisture than Kentucky Blue Grass. Does well in shade or sun. Cold resistant. Germinates in 8 to 12 days. 600,000 seeds per pound. Used in lawns, fairways, pastures, airports and athletic fields.

**ALTA FESCUE.** Perennial. Developed by the U. S. Dept. of Agriculture at Oregon State College. Medium dark green. Wider bladed than Kentucky Blue Grass. Very deep rooted, but develops root system slowly in first year. Survives drought. Does well in shaded areas and on poor soil. Germinates in 7 to 12 days. Has proven itself to be perfectly winter hardy in this climate and is being used in a limited way in mixtures of seeds for athletic fields, airports, playgrounds and pastures. Because of its deep root system it is able to withstand heavy wear. 230,000 seeds per pound.

**ASTORIA BENT GRASS.** Perennial. A strain of Colonial Bent. Very fine, rich green leaf blade. Cold resistant. Fairly tolerant of dry conditions. Spreads by underground runners. Does well in sun or shade. Tolerates acid soils. Susceptible to brown patch and dollar spot. Germinates in 9 to 14 days. 8,700,000 seeds per pound. Used in lawns and on fairways.

Mail Orders are Solicited and Prices Will be Quoted on Request.

## FAESY & BESTHOFF PRODUCTS

**15-30-15 STARTER-GROWER.** All purpose completely mineralized all soluble plant food. Applied as a solution in transplanting or side-dressing. 3-lb. bags.

**BROADLEAF HIGH ORGANIC 6-10-4.** A 33 1/3% organic completely mineralized fertilizer for acid-loving plants. 5-lb., 10-lb., and 25-lb. bags.



**TERMITKIL.** Unadulterated ground penetrant, formula recommended by the U. S. Dept. of Agriculture. 1-gal. cans.

**BONE MEAL.** Pure steamed, guaranteed 2.47% Nitrogen, 23% Total Phosphoric Acid. A favorite organic, slow-acting fertilizer for bulbs, perennial plants, trees, flowering shrubs and for all year round lawn application. Particularly effective in stimulating strong root systems. 5-lb., 10-lb. and 50-lb. bags. Prices on request.

**BONE MEAL**

FERTILIZER GRADE  
PURE, STEAMED

For gardens, grass,  
shrubs, trees  
and potted plants

**F&B**

**LONGHORN BRAND CATTLE MANURE.** A safe 100% organic natural plant food and soil builder. 5-lb. and 10-lb. bags.

**ROSE FOOD 8-10-4.** Specially compounded to contain 50% organic matter for the discriminating Rose fancier and grower. Completely mineralized, 100% plant food carrier, no fillers, encourages brilliant colors, vigorous foliage and resistance to disease. 5-lb., 10-lb. and 25-lb. bags.

**ROSE FOOD  
8-10-4**

50% organic matter  
completely mineralized  
no filler

**F&B**





## FLOWER SEEDS

We are convinced that many of the failures with flower seeds are due to lack of proper conditions, and while it would be impossible in the space at our disposal in this catalog to give explicit directions for each and every variety which we offer, we feel sure that if the general directions given below are followed, success will be the rule.

All of our flower seeds are listed by their common name in strict alphabetical order, together with the botanical name for your guidance.

### Success With Flower Seeds

For all flower seeds which should be started indoors, the best plan is to sow in earthenware seed pans or boxes (about 2 inches deep) which should be filled to the depth of an inch with any rough material that will furnish perfect drainage. The upper inch should be nicely sifted soil, composed, if possible, of about one-third each of sand, leaf mould and light garden loam. Press firmly and evenly and water thoroughly the day before sowing. Sow the seeds thinly over the surface, cover about one-eighth of an inch and press firmly. When the seedlings are large enough to handle, they should be transplanted into similarly prepared boxes an inch apart each way, or put into small pots and kept in same until time to plant out in open ground. At all times they should have an abundance of air, otherwise the young seedlings are liable to "damp off."

For most of the ordinary annual flowers, the simplest method is to sow directly out-of-doors when danger of frost is past in the space where they are intended to flower. The ground should be dug and raked fine on the surface, sowing the seeds evenly and thinly, covering not over four times their size, and firming the soil over them. Should they come up too thickly, as most of them are likely to do, thin out so that the plants will stand from 4 to 12 inches apart, according to the variety.

All of our flower seeds will be packeted at 15c per packet unless otherwise priced. We cannot sell or packet anything smaller.

### How to Sow Flower Seeds

It will prove quite an advantage to mix all small seeds with sand or dry soil and scatter broadcast. This separates the seeds and is quite an advantage in thinning out or transplanting the young plants as those that remain are undisturbed. A common mistake in sowing flower seeds is covering too deeply. The exception to this is the Sweet Pea, which is seldom planted deep enough. As a general rule, cover small seeds only to the depth of the thickness of the seeds; always press the earth after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seed of the hardier annuals may be sown where they are to grow; but as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

**Annuals** are those flowers which bloom and die the same year; grown from seed exclusively.

**Biennials** bloom and die the second year from the seeding time.

**Perennials** grow the plant the first year but do not flower until the second year and then bloom every year.





Ageratum, Midget Blue

**Alyssum (A)**(SWEET ALYSSUM)  
(60,000 seeds per oz.)

Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

**LITTLE GEM.** Erect; white. $\frac{1}{4}$  oz., 30c; 1 oz., \$1.00, postpaid.**VIOLET QUEEN.** $\frac{1}{4}$  oz., 40c; 1 oz., \$1.50.**CARPET OF SNOW** $\frac{1}{4}$  oz., 30c; 1 oz., \$1.00.

**PROCUMBENS, ROYAL CARPET.** A.A.S. '53. Brilliant new gem for the garden. The spreading compact habit and rich violet-purple color should be an excellent companion to Carpet of Snow. Height 3 inches; spread 12 inches.

 $\frac{1}{4}$  oz., \$1.00; 1 oz., \$3.00, postpaid.**Alyssum (P)**

**SAXATILE COMPACTUM.** (Basket of Gold.) 9 inches high. Blooms in May and June, producing masses of golden flowers very early.  $\frac{1}{4}$  oz., 40c; 1 oz., \$1.25, postpaid.

**ANCHUSA ITALICA.** Dropmore. Pkt., 25c.**ARABIS ALPINA** (Rock Cress). Pkt., 25c.**ARCTOTIS.** Large Flowered Hybrids. Pkt., 25c.**ARMERIA.** Formosa Hybrids. Pkt., 25c.

Giant Crego Aster

**NUMBER OF SEEDS PER OUNCE UNDER ALL ITEMS ARE APPROXIMATE.****ABRONIAS (Sand Verbena).**

Pkt., 25c.

**Ageratum (FLOSSEFLOWER) (A)**

(214,000 seeds per oz.)

One of the best summer blooming plants. They are rapid growers; early and constant bloomers.

**BLUE CAP.** Selected. 6 inches. Definitely more dwarf, more compact in habit with small leaves. Bright, deep, rich lavender-blue.

 $\frac{1}{4}$  oz., \$1.20; 1 oz., \$3.60, postpaid.**MIDGET BLUE.** Dwarf, compact, rich blue. $\frac{1}{8}$  oz., 80c;  $\frac{1}{4}$  oz., \$1.35; 1 oz., \$4.50, postpaid.

**DWARF GIANT BLUE TETRA (Blue Mink).** This new tetraploid Ageratum bears giant trusses of fluffy powder-blue flowers on strong, husky plants. Plants grow 5 or 6 inches, are upright, yet compact and even in habit. Ideal for pots, edging or borders.

$\frac{1}{16}$  oz., 50c;  $\frac{1}{8}$  oz., 85c;  $\frac{1}{4}$  oz., \$1.65; 1 oz., \$6.00, postpaid.

**BLUE BEDDER.** Dwarf.

Pkt., 25c.



Alyssum Saxatile Compactum (Perennial)

**Wilt-Resistant Asters (A)**

(12,000 seeds per oz.)

**GIANT CREGO.** The flowers are of immense size, usually from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. Mixed colors.

Pkt., 15c;  $\frac{1}{4}$  oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

**QUEEN OF THE MARKET.** Best early Aster, usually in full bloom two weeks before most others begin to blossom. Graceful spreading habit. Mixed, all colors.

Pkt., 15c;  $\frac{1}{4}$  oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.**EARLY BEAUTY.** Early flowering, mixed colors. $\frac{1}{4}$  oz., \$1.00; 1 oz., \$3.00, postpaid.

**HEART OF FRANCE.** Dark ruby-red variety; large double flowers, beautiful type. Most outstanding Aster.

Pkt., 15c;  $\frac{1}{4}$  oz., 80c; 1 oz., \$2.50; 4 ozs., \$7.50.

**POWDERPUFF.** (New). A mixture of all colors, including shell-pink, azure, lavender and various blues as well as many other colors. A new bouquet type with 2 ft. V-shaped plants, a foot across topped with 15 to 20 fully double puffball cut flowers.

 $\frac{1}{4}$  oz., \$1.25; 1 oz., \$3.75, postpaid.

**GIANT CALIFORNIA SUNSHINE.** Flowers large, with loosely placed outer petals contrasting with creamy yellow or blue centers, giving a lazy effect which is quite delightful. The rogues and off types bloom first and the Giant Sunshine later. Mixed colors.

 $\frac{1}{4}$  oz., 85c; 1 oz., \$2.75, postpaid.**AMERICAN BRANCHING GIANT.** Mixed colors. $\frac{1}{4}$  oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.50, postpaid.**DOUBLE AMERICAN BRANCHING.** Mixed.

Pkt., 15c.

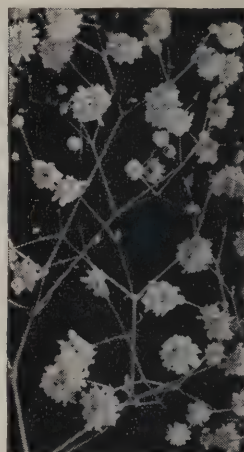


**Baby's Breath**

(GYPSOPHILA) (A)

(25,000 seeds per oz.)

Graceful plants of fairy-like growth. Large flowering, pure white, of free, easy growth. Much in demand for cutting and combining with other flowers for bouquets and vases. Several sowings should be made during the season to keep up the supply. 1 oz., 35c.



Baby's Breath

**Bachelor's Button** (CENTAUREA)

(8,000 seeds per oz.)

A very popular annual that will always charm by its simple beauty.

**CYANUS MIXED.** 1/4 oz., 20c; 1 oz., 60c.

**JUBILEE GEM.** Pkt., 25c.

**RED BOY.** Pkt., 25c.

**BELLS OF IRELAND.** (7000 seeds per ounce). Graceful 2-foot branching stems are so surrounded by 2-inch flowers there is little room for leaves. The bell-shaped calyx is green and delicately veined, containing the white corolla. Both curious and beautiful. Lasts well when cut. 1/16 oz., 35c; 1/4 oz., 95c; 1 oz., \$2.75, postpaid.

**BLUE LACE FLOWER.** (A.) Coeruleus. Blue. Pkt., 15c.



Balsam

**Balsam** (LADY SLIPPER) (A)

(2,400 seeds per oz.)

**DOUBLE CAMELLIA-FLOWERED MIXED.** An old favorite garden flower, producing gorgeous masses of beautiful, colored, double flowers throughout the season.

1/4 oz., 30c; 1 oz., 90c; 4 ozs., \$2.50.

**Dwarf Bush Balsam**

Flowers form a pretty rich bouquet of double rose-like flowers about foliage. In separate colors and mixed.

**CINNABAR** (brilliant red); **ROSE; WHITE REFLECTED**

**ROSE; WHITE; SCARLET; TORCH** (dwarf vermilion-red).

**SPECIAL MIXTURE.** All of the above colors in a well balanced mixture or in straight colors as wanted.

1/4 oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.25.

**Calendula** (POT MARIGOLD) (A)

(15,000 seeds per oz.)

**ORANGE KING.** The outer petals slightly imbricated, while those in the center are curved like those of the Peony. Color glowing orange.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$2.50.

**BALL'S GOLD.** It has fine stems, immense double flowers of a brilliant glistening orange. A great favorite on the Chicago cut-flower market.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$2.50.

**SUNSHINE.** Pkt., 15c.



Carnations

**Canterbury Bells** (CAMPANULA) (B)

(125,000 seeds per oz.)

This old-fashioned flower is a favorite with all, stately and showy and of the easiest growth. For best results seed should be sown every year.

**CALYCANTHEMA** (Cup and Saucer). Double Mixed. 2 ft. June to August. Mixed colors.

1/4 oz., 50c; 1 oz., \$1.40, postpaid.

**Carnations** (A)

(15,000 seeds per oz.)

Always in demand and not hard to grow, being hardy and free flowering. It is one of the most valuable of summer flowers.

**MARGUERITE.** Double Mixed.

Pkt., 15c; 1/4 oz., 75c; 1 oz., \$2.25; 4 ozs., \$6.50.

**CHABAUD GIANT MIXED.**

1/4 oz., 75c; 1 oz., \$2.50; 4 ozs., \$9.00.

**GRENADIN.** Dwarf, 15 inches. Choice mixture. Early Vienna type. Nice range of colors.

1/8 oz., 65c; 1/4 oz., \$1.25; 1 oz., \$4.00.

**CARDINAL CLIMBER.** (A). Pkt., 25c.

**Castor Bean** (RICINUS) (A)

(30 seeds per oz.)

Decorative plant with fern-like foliage, giving to the garden a magnificent sub-tropical effect; even a single plant forms a pyramid of leaves.

**ZANZIBARIENSIS.** Leaves vary in color from light green to purplish red. Pkt., 10 seeds, 10c; 1 oz., 35c; 1/4 lb., \$1.00; 1 lb., \$3.50.

All of our flower seeds will be packeted at 15c per packet unless otherwise priced. We cannot sell or packet anything smaller.





Celosia, Tall Coxcomb

**CENTAUREA, IMPERIALIS.**  
Sweet Sultan. Pkt., 25c.

**CHINESE FORGET-ME-NOT.**  
Firmament. Pkt., 25c.

**CLARKIA.** Double Mixed.  
Pkt., 25c.

**CYPRESS VINE (A)**  
Pkt., 25c.

## Chrysanthemum

**CARINATUM RAINBOW MIXTURE.** The very free flowering 2 feet high plants are early blooming, come into flower two months from the time of sowing; from June until September they give a truly amazing display.

Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.75, postpaid.

## Columbine

(**AQUILEGIA**) (P)  
(17,500 seeds per oz.)

**MRS. SCOTT ELLIOTT'S STRAIN.** This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June.

1/4 oz., \$1.75.



Dimorphotheca

## Celosia (COXCOMB) (A)

(30,000 seeds per oz.)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

**CRISTATA, EMPRESS.** (Dwarf Crested.) Crimson combs, dark foliage. 12 inches. Pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

**CRISTATA, TOREADOR.** 16 inches. Bright red, with light green foliage. Large pkt., 65c; 1/16 oz., \$1.00; 1/8 oz., \$1.50; 1/4 oz., \$2.50;

1 oz., \$8.00, postpaid.

**PLUMOSA, GOLDEN FLEECE.** The clear golden yellow feathery spikes are carried on good stems giving a magnificent airy appearance. This is a new GIANT plumosa type, which should be excellent for pots or garden use.

Pkt., 40c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$3.00.

**PLUMOSA, DWARF FIERY FEATHERED.** A standard variety. 12 inches.

Pkt., 15c; 1/8 oz., 50c; 1/4 oz., 90c; 1 oz., \$2.25.

**FEATHERED, MIXED** (Pampas Plume).

Pkt., 25c.

## Cleome (SPIDER FLOWER)

(125,000 seeds per ounce)

Blooms from June to frost from seed that is sown early. Free from insects and disease. Height 4 ft.

**GIANT PINK QUEEN.** Large pink heads.

1/8 oz., 35c; 1/4 oz., 55c; 1 oz., \$1.65, postpaid.

**HELEN CAMPBELL.** Pure white heads.

1/8 oz., 35c; 1/4 oz., 55c; 1 oz., \$1.65, postpaid.



Coleus

## Coleus (FOLIAGE PLANTS) (A)

(3,500 seeds per 1/32 oz.)

**BALL'S GIANT EXHIBITION MIXTURE.** An extra large leaved strain with exceptional brilliance of coloring.

Tr. pkt., \$1.25; 1/32 oz., \$2.50; 1/16 oz., \$4.75.

**RAINBOW MIXTURE—GREENHOUSE GROWN.** This seed will increase the brilliance of color, and have a greater percentage of brighter shades.

1/32 oz., \$1.25; 1/16 oz., \$2.00; 1/8 oz., \$3.50, postpaid.

## Coreopsis (P)

(12,000 seeds per oz.)

**DOUBLE SUNBURST.** This is one of the finest of hardy plants, with large, showy, bright yellow flowers produced in greatest abundance from June until frost. As cut flowers they stand near the head among hardy plants.

Pkt., 15c; 1/4 oz., 35c; 1 oz., \$1.00.

## DIMORPHOTHECA

(10,000 seeds per oz.)

**DIMORPHOTHECA** (African Daisy). Glistening white, 6 to 8 in. The petals of the Daisy-like flowers, 4 inches in diameter, glisten like white enamel. They are borne freely on low, spreading plants, like the hot sun and dry weather, and flower long after frost.

1/4 oz., 90c; 1 oz., \$3.00, postpaid.

**AURANTIACA** (Orange Daisy). Glossy golden orange flowers. 12 inches.

1/4 oz., 60c; 1 oz., \$1.75, postpaid.





Cosmos, Sensation

**Double Daisy**

(BELLIS PERENNIS) (P)

(12,500 seeds per oz.)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture. Pkt., 15c;  $\frac{1}{8}$  oz., 75c;  $\frac{1}{4}$  oz., \$1.25; 1 oz., \$3.75.

**PAINTED DAISY.** See Pyrethrum, page 48.

**Delphinium**

(PERENNIAL LARKSPUR) (P)

(10,000 seeds per oz.)

**PACIFIC GIANTS, MIXED.** This new strain produces plants that are 60-65 per cent mildew resistant. The flowers are immense size, tightly set on straight stems, do not shatter and are fine for cut flowers.

Pkt. only, 25c.



Unwin's Dwarf Hybrid Dahlias

**Cosmos (A)**

(5,500 seeds per oz.)

**KLONDYKE, ORANGE FLARE.**

$\frac{1}{4}$  oz., 30c; 1 oz., \$1.15.

**EARLY FLOWERING MAMMOTH MIXED.**

$\frac{1}{4}$  oz., 40c; 1 oz., \$1.25.

**SENSATION MIXED.** The most satisfactory class of Cosmos to grow for cut-flower purposes. Extra large flowered, extra early.

$\frac{1}{4}$  oz., 40c; 1 oz., \$1.25.



Delphinium

**DAHLIA**

**UNWIN'S DWARF HYBRIDS.**  $\frac{1}{4}$  oz., 90c; 1 oz., \$2.50; 4 ozs., \$7.50.

**Forget-Me-Not**

(MYOSOTIS) (B)

(42,000 seeds per oz.)

They are considered among the best spring flowers. They prefer moist, cool soil, and will bloom freely in fall and early spring.

**VICTORIA.** Indigo-blue. 8 inches.

**VICTORIA.** Sky-blue. 8 inches.

**VICTORIA WHITE.** Dwarf.

**VICTORIA ROSEA.** Pink.

Pkt., 15c;  $\frac{1}{8}$  oz., 75c;  $\frac{1}{4}$  oz., \$1.25; 1 oz., \$3.75.



**Four O'clock**(MIRABILIS) (A)  
(350 seeds per oz.)**MARVEL OF PERU.** Mixed colors.**Pkt., 15c; 1 oz., 40c; 1/4 lb., \$1.30.****FOXGLOVE** Digitalis). **Pkt., 25c.****Gaillardia**

(BLANKET FLOWER) (A)

(15,000 seeds per oz.)

**PICTA LORENZIANA.** Double flowers, mixed colors.**Pkt., 15c; 1/4 oz., 40c.****Gaillardia** (P)

Bloom from June to October. Their long flowering period, long stems and bright colors make these one of the most valuable perennials, being easily grown in beds and borders.

**GRANDIFLORA.** Mixed single. **1/4 oz., 40c.**

Four O'clock

**GEUM.** Double scarlet. **Pkt., 25c.****GOURDS.** Mixed large types. **Pkt., 15c; 1/4 oz., 30c; 1 oz., 80c.****GOURDS.** Small ornamental types mixed. **Pkt., 15c; 1/4 oz., 30c; 1 oz., 80c.****HEARTS and HONEY**

A climbing vine related to Cardinal Climber. Producing masses of beautiful Honeysuckle-type flowers which change their color from a brilliant orange in the morning to pinkish red at noon and brilliant rose-pink in the late afternoon.

**Pkt., 25c; 1/4 oz., 75c; 1/2 oz., \$1.25, postpaid.****HELIOTROPE.** Dark varieties mixed. **Pkt., 25c.****HESPERIS** (Sweet Rocket). **Purple or white. Pkt., 25c.****HIBISCUS.** **Pkt., 25c.****Hollyhocks**

(P)

(3,800 seeds per oz.)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 feet.

**DOUBLE MIXED.** Double and semi-double.**Pkt., 15c; 1/4 oz., 75c.**

Gaillardia

**HOLLYHOCK.** Indian Spring. **Pkt., 25c.****ICELAND POPPY.** Gartford Mixed. **Pkt., 25c.****LANTANA.** **Pkt., 25c.****Kochia**

(MEXICAN FIRE BUSH)

The light green pyramidal 2 1/2- to 3-foot bushes, close and compact, turn beautiful deep red in autumn.

**Pkt., 15c; 1 oz., 75c.****Larkspur** (A)

(8,700 seeds per oz.)

The graceful spikes of bloom are much valued for vases. They continue long in bloom.

**GIANT IMPERIAL MIXED.** 3 feet. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate color. **1/4 oz., 45c; 1/2 oz., 85c; 1 oz., \$1.50; 4 ozs., \$4.50.**

**GIANT HYACINTH-FLOWERED.** 45 inches. Blooms much earlier than other tall Larkspur. It is non-branching, with perfect double blooms to a length of 18 or 20 inches.

**1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.****SUPER MAJESTIC MIXED.** **Pkt., 15c.****MAJESTIC ROSE PINK.** **Pkt., 25c.**

Larkspur





Lobelia

## Lobelia

(CRYSTAL PALACE)

(700,000 seeds per oz.)

Compact. A fine variety, producing four-inch plants with dark bronzy green foliage and dark blue flowers.

**Pkt., 25c; 1/16 oz., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.**

**LAVENDER. Pkt., 25c.**

**LUNARIA. Biennis. Pkt., 25c.**

**LUPIN. Perennial Mixed. Pkt., 25c.**

## Marigolds

(TAGETES) (A)  
(10,000 seeds per oz.)

### GIANT-FLOWERED TYPE

Strong growing plants, 3½ feet tall, bearing huge, ruffled, tightly petaled Peony-flowered blooms; the largest of any Marigolds.

**CRACKER JACK.** New for 1957. This is a new number that is a sure cure for flaws that have plagued gardeners in growing Sunset Giants. It is weeks earlier. Uniformly large flowers measuring 4 to 5 inches across. Plants are compact and sturdy, growing only two-thirds the height of Sunset Giants. The bloom is better and is a blend of primrose, yellow, gold and orange. See it in color, outside back cover.  
**1/4 oz., 65c; 1 oz., \$1.75; 4 ozs., \$6.50, postpaid.**

**SUNSET GIANTS.** Huge flowers, colors range through orange, yellow and primrose. A tall variety and a beauty.

**1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.**

**MAMMOTH MUM.** Tall, strong plants bearing 3½-inch light yellow flowers on excellent stems. A florist favorite.

**Pkt., 35c; 1/4 oz., 60c; 1 oz., \$2.00.**

**ORANGE SUNSET.** Huge pure orange, strong growing plants 3½ feet tall, bearing huge ruffled, tightly petaled Peony-flowered blooms, the largest of any Marigold.

**1/4 oz., 60c; 1 oz., \$2.00.**



Marigold

**DOUBLE TALL AFRICAN MIXTURE. Pkt., 10c; 1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.**

### NEW DWARF FRENCH MARIGOLDS

1958 All-America Winners

Shown in Color on Back Cover

PETITE HARMONY

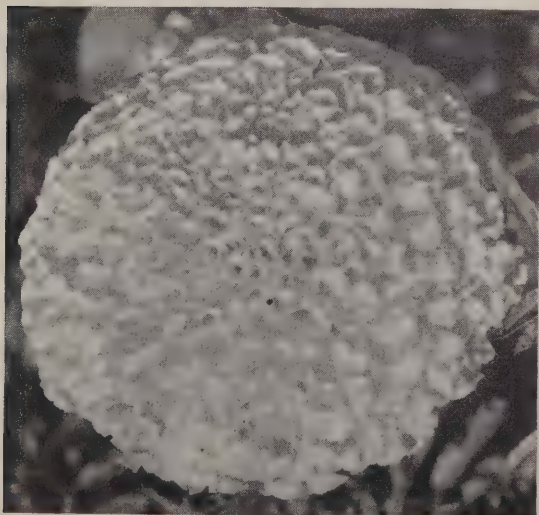
PETITE GOLD

PETITE ORANGE

These three new Marigolds are All-America Winners of Bronze Medal for 1958 in a new class of extra dwarf plants. The Petite strain is distinctly different from any other class of Marigolds, being especially bred to remain dwarf under conditions where most Marigolds tend to grow rangy and wild, with late flowering tendencies. The Petite strain produces an abundance of very early blooms with long blooming period. Plant is compact, 6 inches tall, 10 inches wide with flowers borne in great profusion. Color of the three is indicated by name, while the Petite Harmony flower is a beautiful contrasting bi-color in the Harmony class.

**PETITE YELLOW** does not have an award as it was not ready at the time of trials, but it is of the same type and completes the color range. Limited supply.

**1/4 oz., \$1.75; 1 oz., \$6.00; 4 ozs., \$11.00, postpaid.**



Marigold, Cracker Jack



## MARIGOLD—Continued



Marigold, Naughty Marietta

## CARNATION-FLOWERED

Loosely petaled flowers, 3 inches or more across, borne on plants generally 2 to 2½ ft. high.

**GUINEA GOLD.** 2 to 2½ feet. An unusual type of Marigold, color orange flushed with gold. Nearly all flowers are double or semi-double and their odor is less pungent than that of other Marigolds.

¼ oz., 40c; 1 oz., \$1.00.

**YELLOW SUPREME.** A large, fluffy, well-rounded bloom of delicate milk-honey fragrance, with broad, loose frilled petals of rich, creamy lemon color. Plants practically free from objectionable Marigold odor.

¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.

## CHRYSANTHEMUM-FLOWERED

**GLITTERS.** The 3-inch shaggy Chrysanthemum flowers of this All-America winner are a bright canary-yellow, abundantly produced on long strong stems. 3 ft.

¼ oz., 75c; 1 oz., \$2.00; 4 ozs., \$6.00, postpaid.

## CUPID MARIGOLDS

An odorless foliage group with dwarf, compact habits, good sized flowers, Chrysanthemum-like in form, completely covering the plant. Recommended for edging, border, pots and combinations. 6 in. plant.

**CUPID PRIMROSE CUPID GOLDEN CUPID ORANGE**

**CUPID MIXED.** A good range of colors including the above.

Prices of any of the separate colors or the mixture: ⅛ oz., 70c; ¼ oz., \$1.25; 1 oz., \$4.25.

## DWARF FRENCH SINGLE TYPES

**FLASH.** Single mahogany flowers with golden yellow margins on medium dwarf plants.

¼ oz., 35c; 1 oz., \$1.00; 4 ozs., \$3.25.

**NAUGHTY MARIETTA.** Uniform, semi-dwarf, bushy plants, vigorous, free blooming with 2-in. flowers of golden yellow, each petal having a mahogany base.

¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

**RED HEAD.** Flowers 2 inches across, opening rich mahogany, changing to auburn and later to bronzy gold. Compact, dwarf plants, 1 foot high, completely covered with flowers. ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

## DWARF FRENCH DOUBLE TYPES

**HARMONY, TALLER TYPE.** 12 to 14 inch. Scabious-like flowers of deep orange with maroon collars of broad petals, crested centers.

¼ oz., 50c; 1 oz., \$1.40; 4 ozs., \$4.50.

**SCARLET GLOW.** The brightest red Marigold.

¼ oz., 50c; 1 oz., \$1.40; 4 ozs., \$4.50.

**EXTRA DWARF HARMONY.** (Midget Harmony.) Same color as Spry, but dwarf in habit. 6 inches.

¼ oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

**COLOR MAGIC.** (New.) Brilliant colors red to pure gold, many varied striped combinations in red and gold. Full double. Plant dwarf and compact. 6 inches.

¼ oz., 50c; 1 oz., \$1.60.

**YELLOW PYGMY.** Light lemon-yellow, only 8 inches tall and compact, small 1¼-inch blooms, free flowering and excellent for edging beds.

¼ oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

**RUSTY RED (Fandango).** Large, fully double flowers 2 inches and more across of a rich rusty red, delicately edged golden yellow. Freely produced, the flowers borne in great profusion well above the dwarf bushy plants from early summer to late fall.

¼ oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00.

**LEMONDROP.** Early, profuse blooming, compact 9-inch plants covered with fully double canary-yellow flowers. Seedling plants bloom in the flats for sales appeal.

¼ oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

## EXTRA DWARF FRENCH DOUBLE TYPES

**SPRY.** Extra Dwarf. Very early flowering double, clear yellow crested centers surrounded by mahogany-red guard petals. Especially good for early pots.

¼ oz., 50c; 1 oz., \$1.60; 4 ozs., \$5.00, postpaid.

**BUTTERBALL.** Soft butter-yellow, 6 to 8 inches.

¼ oz., 50c; 1 oz., \$1.40; 4 ozs., \$4.50.

**SUNKIST.** Orange, dwarf, compact, early.

¼ oz., 50c; 1 oz., \$1.40; 4 ozs., \$4.50.

**GOLD CREST.** Very early golden yellow 2-inch flowers with crested center, surrounded by guard petals. Extra fine for flats.

¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.

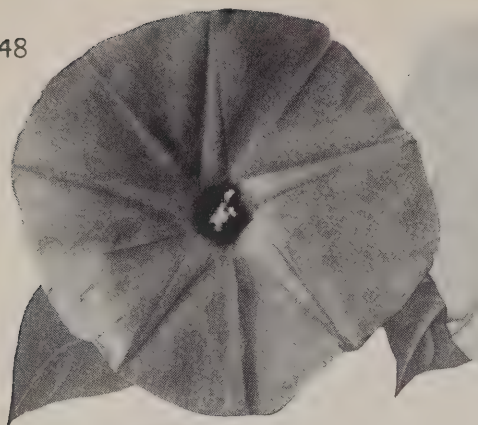
**DOUBLE DWARF FRENCH.** Special Mixture including Spry, Butterball, Sunkist, etc.

¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$4.50.

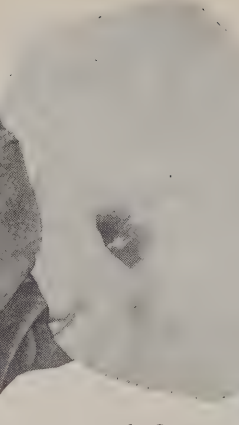


Marigold, Spry





Scarlett O'Hara



Pearly Gates



Heavenly Blue

## Morning Glory (IPOMOEA) (A)

(200 seeds per oz.)

Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

### COMMON MIXED.

1/4 oz., 15c; 1 oz., 50c; 4 ozs., \$1.50.

### HEAVENLY BLUE.

1/4 oz., 25c; 1 oz., 75c; 4 ozs., \$2.25.

### SCARLETT O'HARA. Red.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$3.00.

### PEARLY GATES. White.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$3.00.

**GIANT CORNELL.** Red with white edge. The best red large flowered Morning Glory.

1/4 oz., 30c; 1 oz., \$1.00; 4 ozs., \$3.00.

**CRIMSON RAMBLER.** Pkt. only, 15c.

## Mignonette (A)

(30,000 seeds per oz.)

**MACHET.** The best for all purposes. Of dwarf habit, with very large red flowers and handsome foliage. Pkt., 25c.

## Nasturtiums (A)

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is a moderately good soil, in a well drained sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blossoms.

### DWARF, SINGLE MIXED.

Pkt., 15c; 1 oz., 35c; 4 ozs., \$1.00.

### TALL TRAILING, SINGLE MIXED.

1 oz., 35c; 4 ozs., \$1.00.

**SCARLET GLEAM.** Plain petaled and deep throated. This is a sweet scented variety similar to Golden Gleam.

Pkt., 15c; 1 oz., 35c; 4 ozs., \$1.00.

**GOLDEN GLEAM.** An attractive, double-flowered, sweet-scented variety adapted to culture as bedding or pot plants. Also valuable for cut flowers.

1 oz., 35c; 4 ozs., \$1.00.

**DOUBLE GLORIOUS GLEAM HYBRIDS.** These hybrids are a collection of gorgeously colored, large, well formed flowers of such dazzling beauty and colors as were never dreamed of before in a double Nasturtium. Mixed colors. 1 oz., 35c; 4 ozs., \$1.00.

## Momordica

(BALSAM APPLE)

A yellow shade. Pkt., 25c.

## Nemesia

(TRIUMPH MIXED)

(90,000 seeds per ounce)

Dwarf compact; 8-inch plants with brilliant orchid-like flowers. For pots sow in January or February. Grow in 40° to 50° house. For flats sow March 1st.

1/8 oz., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

## Nicotiana

(SWEET SCENTED FLOWERING TOBACCO)

(275,000 seeds per ounce)

**AFFINIS.** White. Clusters of flowers like a long tubed Petunia on 3 foot plants.

1/4 oz., 25c; 1 oz., 75c, postpaid.

**SENSATION MIXED.** More compact with a wide color range. Very fragrant. 2 foot plants.

1/4 oz., 55c; 1 oz., \$1.65, postpaid.

**CRIMSON BEDDER.** Dwarf pyramidal, deep crimson, 32 inches.

1/8 oz., 35c; 1/4 oz., 55c; 1 oz., \$1.65, postpaid.

## Pyrethrum

(PAINTED DAISY) (P)

One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flower. Flowers in May and June and frequently in August and September; in all shades of rose and pink. Height 1 to 2 feet.

**ROSEUM.** Single mixed.

Pkt., 25c; 1/4 oz., \$1.50; 1 oz., \$5.00.

**ROSEUM.** Double mixed.

Pkt., 25c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$5.50.



Golden Gleam Nasturtium



## Petunias (A)

For Bedding and Pots  
(250,000 seeds per oz.)

The Petunia loves a rich soil and thrives best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.

### Grandiflora Single F<sub>1</sub> Hybrid Varieties

Large Single Dwarf Fringed  
6000 seeds per 1/64 oz.

**BALLERINA.** Large single fringed flowers of a soft glowing salmon. Plants are dwarf and compact. Blooms 3½ to 4 inches across. Excellent for pots and an interesting variety for the garden border.

**BOLERO.** Carmine-rose-pink flowers well ruffled and fringed. 3½ to 4 inches across. Plants uniformly dwarf and compact. Profuse bloomer and an excellent variety for pot culture.

**CRUSADER.** F<sub>1</sub> hybrid. Uniformly dwarf, compact, spreading. A vigorous grower, flowering characteristics large, 3¼ to 3¾ inches, fringed, free flowering. Height 11 to 13 inches. Spread 20 to 24 inches. It is used for pots, borders, boxes or bedding.

**LA PALOMA.** Large well filled fringed flowers, 100% large flowering pure white with yellow throat. Most uniform and vigorous grower. An early December sowing will produce Easter pot plants.

**TANGO.** Deep salmon, outside of bloom shading to scarlet nearer throat. Flowers 3½ to 4 inches across, beautifully fringed. Truly dwarf but due to hybrid vigor are strong growing. 12 to 15 inches high with spread of 2 feet. Very brilliant.

**PRIMA DONNA.** Bronze Medal All-America Selections 1955. Bright rose-pink. Same flowering and growing habit as Ballerina. Uniformly dwarf, compact spreading, fringed, free flowering. 3½ to 4-inch spread. Plants 12 to 15 inches high. Used for pots, borders or bedding.

All of the above: ½ tr. pkt. (500 seeds) \$1.35; tr. pkt. (1000 seeds), \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00.

**FIRE DANCE.** (All-America Winner 1956.) A new F<sub>1</sub> Hybrid in Pan-American Grandiflora class. Its large 3½-inch blooms colored deep scarlet-red, blends down to a throat of rich gold. Plants dwarf and compact, 12 inches, with up to 3-foot spread. Very free flowering.

½ tr. pkt., \$1.75; tr. pkt., \$3.00; 1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00; 1/16 oz., \$36.00.

**MAYTIME.** Bronze Medal 1958. New. Color clear light salmon-pink 100% grandiflora. Extremely free flowering. Fringed. Blooms 3½ to 4 inches. Very uniform, compact, spreading base branching. Height about 12 inches, spread 24 to 30 inches.

½ tr. pkt., \$1.75; tr. pkt., \$3.00; 1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00; 1/16 oz., \$36.00.

Petunia, Maytime



Petunia, Fire Dance

### F<sub>1</sub> Hybrid Multifloras for Bedding

**APACHE.** (New.) Bright rose-red for bedding. Same general growing and flowering habits as Comanche.

**AZTEC.** Color scarlet-red with gold throat. Very free flowering, 2½- to 2¾-inch blooms. Dwarf, compact, vigorous grower. Height 12 to 15 inches, spread 18 to 22 inches.

**COMANCHE.** An F<sub>1</sub> hybrid of multiflora class. Color is deep scarlet-red. No fading. It is a free blooming variety with flowers measuring from 2½ to 2¾ inches across. It is base branching and semi-compact. Height 15 inches with spread of 18 inches. It is important that there be at least 18-inch spacing.

**INCA.** Color deep rose with gold throat. Floriferous. 2½- to 2¾-inch blooms. Dwarf, compact, base branching. Very vigorous. Height 12 to 16 inches, spread 20 to 26 inches.

**LINDA.** (Improved Silver Medal.) 3300 seeds per 1/64 oz. The clear light salmon-pink flowers have a more pronounced sheen while the plants are more compact. Vigorous, free flowering. It is unexcelled for pot plants and bedding. 18 inches tall.

**MOHAWK.** Color bright rose-pink. Very free flowering. Blooms 2½ to 2¾ inches. Semi-dwarf, compact. Very vigorous. Height 16 to 20 inches, spread 20 to 24 inches.

**PALEFACE.** Pure white, same as the others in growing and flowering habits.

**PINK SENSATION.** Light rose-pink.

**ROSE CHARM.** Clear rich rose flowers produced in such profusion the plants are almost entirely covered. Very showy, a single plant often covering 3 feet in diameter. Ideal for bedding and border.

**SILVER MEDAL.** Medium large soft salmon-pink flowers, abundantly produced on strong well-branched plants.

**SIOUX.** Color medium tone salmon. Very free flowering. 2½- to 2¾-inch blooms. Very uniform, dwarf, compact, spreading. Height 13 to 16 inches, spread 24 to 28 inches.

All of the above: ½ tr. pkt., 90c; tr. pkt., \$1.65; 1/128 oz., \$3.00; 1/64 oz., \$5.50; 1/32 oz., \$10.00; 1/16 oz., \$18.00.







Petunia, Red Satin

**A New F<sub>1</sub> Hybrid Multiflora**

New for 1957, and proud recipient of an All-America Selections medal. Red Satin displays incredibly vivid and shining scarlet-red

flowers. Heat and sunshine fail to fade the color. The plants attain a 10- to 12-inch, globe-shaped form and maintain that size and character right through the season. The persistent neatness of the plants makes a perfect vehicle for the 2½- to 3-inch blooms, and you can expect 30 blooms open at one time on each plant, holding steadily through the summer until frost. It is suited for low beds to create a bright band of scarlet for borders and edgings, as well as blooming pot plants. See inside back cover.

**PINK SATIN.** As illustrious as its predecessor "Red Satin," this new F<sub>1</sub> hybrid multiflora Petunia possesses the same attractive globe-shaped plant. The brilliant rose-pink flowers command attention by their intense concentration of color and then relieve that intensity with a clean, white area deep in the throat of the bloom.

**PEACH SATIN.** This is the third member of the Satin series. Newly opened flowers are nearly coral in tone and as the bloom becomes full the color softens to an appealing warm salmon-pink. Flower size is greater than Red or Pink Satin, measuring 3 to 3½ inches and the plants are slightly taller, reaching 14 to 16 inches.

Any one of the above three varieties:

¼ tr. pkt., 90c; tr. pkt., \$1.65; 1/128 oz., \$3.00; 1/64 oz., \$5.50; 1/32 oz., \$10.00; 1/16 oz., \$18.00; ½ oz., \$30.00, postpaid.

**BLUE LUSTRE.** New for 1958 and the first of the Lustre series. Newly opened blooms are a deep velvety blue. As they mature or in hot weather they develop a rich red under-tone which varies like taffeta, depending on the light under which they are viewed. Plants grow only a foot tall, spreading 24 inches.

¼ tr. pkt., \$1.75; tr. pkt., \$3.00; 1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00.

**GLITTERS.** F<sub>1</sub> multiflora. The first red and white bi-colored Petunia. Grows only 8 inches high, showy dwarf bedder and edger. Blooms are about 2 inches across.

1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$11.70; 1/16 oz., \$20.00, postpaid.

**PETUNIA, Hybrida**

Strong growing and free flowering 20- to 24-inch plants, bearing many medium sized plain edged single flowers. For garden use.

**5432 FLAMING VELVET.** Velvety blood-red.

⅛ oz., 65c; ¼ oz., \$1.00; 1 oz., \$3.60, postpaid.

**5422 HOWARD STAR.** Reddish purple, white star.

⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.00.

**5430 VIOLACEA.** Deep violet.

⅛ oz., 75c; ¼ oz., \$1.25; 1 oz., \$4.00.

**5410 WHITE KING.** White.

⅛ oz., 75c; ¼ oz., \$1.25; 1 oz., \$4.00.

**5440 SPECIAL MIXTURE** of the above varieties.

⅛ oz., 75c; ¼ oz., \$1.25; 1 oz., \$4.00.

**PETUNIA, Hybrida Nana Compacta**

In ordering Petunias, be sure to order by number as well as by name, to insure giving you the varieties you want.

Dwarf compact free flowering 12- to 14-inch plants, bearing many medium sized plain-edged single flowers. For beds and borders.

**ADMIRAL.** Re-selected. The best dwarf clear blue. Petunia of good size and an even compact grower.

Tr. pkt., 75c; 1/64 oz., \$1.25; 1/32 oz., \$2.25; 1/16 oz., \$3.50; ½ oz., \$6.00.

**ALDERMAN (Blue Ball).** Medium size flowers of deep violet-blue. Fine for pot plants and bedding.

Pkt., 30c; ¼ oz., \$1.25; 1 oz., \$4.00.

**5512 BLUE BIRD (Violacea).** Very deep violet. 12 in. tall.

Pkt., 25c; 1/16 oz., 50c; ⅛ oz., 85c; ¼ oz., \$1.25; 1 oz., \$4.00, postpaid.

**5482 BLUE BEDDER.** Mid-blue.

Tr. pkt., 45c; ⅛ oz., 90c; ¼ oz., \$1.70; 1 oz., \$5.00.

**5484 CELESTIAL ROSE STANDARD STRAIN.**

Pkt., 15c; ⅛ oz., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

**CELESTIAL ROSE IMPROVED.** Deep rose, compact.

1/16 oz., 60c; ⅛ oz., 90c; ¼ oz., \$1.40; 1 oz., \$4.50, postpaid.

**5302 CREAM STAR.** Soft creamy white flowers.

Pkt., 15c; 1/16 oz., 60c; ⅛ oz., 85c; ¼ oz., \$1.25; 1 oz., \$4.00.

**5494 LIPSTICK.** Carmine-rose with just a suggestion of salmon. Very true to color and habit.

1/16 oz., \$1.00; ⅛ oz., \$1.75; ¼ oz., \$3.00; ½ oz., \$5.00; 1 oz., \$9.00.

**5500 ROSY MORN IMPROVED.** Select rose, white throat, dwarf extra select stock.

Pkt., 15c; 1/16 oz., 60c; ⅛ oz., 90c; ¼ oz., \$1.40; 1 oz., \$4.50.

**5496 ROSE OF HEAVEN.** Brilliant rose, dwarf, extra select stock.

Pkt., 15c; 1/16 oz., 60c; ⅛ oz., 85c; ¼ oz., \$1.25; 1 oz., \$4.00.

**SNOWBALL IMPROVED.** An excellent pure white.

⅛ oz., 90c; ¼ oz., \$1.60; 1 oz., \$5.00.

**5510 TOPAZ QUEEN.** Scarlet-rose, compact, large.

⅛ oz., 90c; ¼ oz., \$1.60; 1 oz., \$5.00.

**5303 TWINKLES.** Masses of small bright rose flowers with white star.

1/16 oz., 90c; ⅛ oz., \$1.50; ¼ oz., \$2.25; 1 oz., \$7.00.



**Dwarf Small Flowering Mixtures**

This will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as summer lasts.

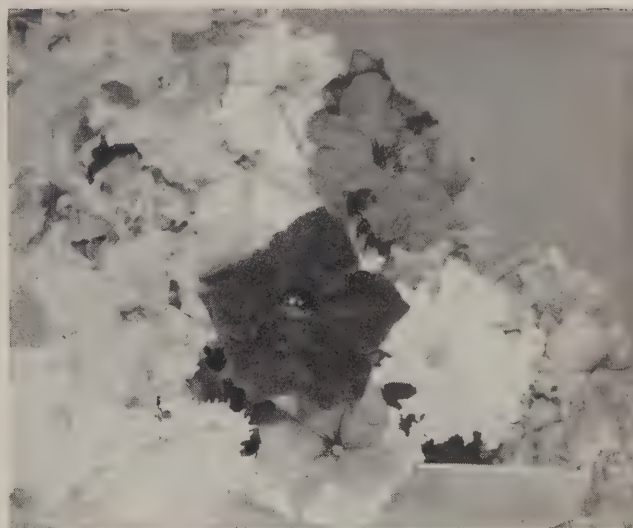
These are well balanced mixtures of our own.

**NO. 1. EXTRA CHOICE MIXTURE.** Containing *Violacea*, *Topaz Queen*, *Celestial Rose Improved*, *Rosy Morn*, *Rose of Heaven*, *Blue Bedder*, *Snowball Improved*, *Fire Chief*, *Lipstick*, *Alderman*, *Glow* and *Cream Star*.

1/8 oz., \$1.25; 1/4 oz., \$2.00; 1 oz., \$7.00.

**NO. 2. STANDARD MIXTURE SPECIAL.** Containing *Violacea*, *Topaz Queen*, *Snowball*, *Rosy Morn*, *Celestial Rose regular*, *Blue Bedder*, *Fire Chief*.

1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.



Carnival

**5512 VIOLACEA** (*Blue Bird*). Very deep violet, 12 inches tall.

Pkt., 25c; 1/16 oz., 50c; 1/8 oz., 85c; 1/4 oz., \$1.25; 1 oz., \$4.00, postpaid.

**ELK'S STAR.** Blue-purple flower, uniformly marked.

1/32 oz., \$1.00; 1/16 oz., \$1.50; 1/8 oz., \$2.50; 1/4 oz., \$4.50.

**5492 FIRE CHIEF.** Brilliant scarlet-red. Plant dwarf.

Pkt., 35c; 1/16 oz., \$1.00; 1/8 oz., \$1.75; 1/4 oz., \$3.00; 1 oz., \$10.00.

**GLOW.** The richest red small flowering *Petunia*; a dwarf bushy plant which is covered with 2½-inch flowers of dazzling carmine-red.

1/32 oz., 60c; 1/16 oz., 90c; 1/8 oz., \$1.50; 1/4 oz., \$2.50.

**Grandiflora Nana Compacta**

**5446 KING HENRY.** Velvety red. Large flowers, 8-inch plants.

1/32 oz., \$1.40; 1/16 oz., \$2.50; 1/8 oz., \$4.50; 1/4 oz., \$8.00.

**5444 VELVET BALL.** Round, compact, ball-shaped, 8-inch plants, velvety red blooms.

1/32 oz., \$1.40; 1/16 oz., \$2.50; 1/8 oz., \$4.50; 1/4 oz., \$8.00.

**CARNIVAL**

This new grandiflora mixture is described by the originator as an F<sub>2</sub> hybrid, which by breeding skill assures a planting of multi-bloom plants, vigorous, dwarf and compact in habit of growth. Color ranges in fringed and ruffled flowers, of nearly 20 different shades which include crimson, blue, salmon, red, white, rose, shades of pink and a fascinating series of variegated white and rose, or white and blue flowers. This is really a Carnival of assorted bright colors, and is an item that is going to be in big demand for all plant sales.

1/64 oz., \$1.75; 1/32 oz., \$2.75; 1/16 oz., \$4.25; 1/8 oz., \$7.00; 1/4 oz., \$12.00; 1 oz., \$40.00, postpaid.

**Large Fringed Types**  
**Grandiflora Single Fringed**  
 12 to 16 inches tall

**5624 FLUFFY RUFFLES.** Mixture of bi-color shades, many of which are not offered in separate colors.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**5618 FRINGED SNOWSTORM.** Excellent white, compact.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**5626 FIMBRIATA.** Choice mixed.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**Giants of California**

**5708 SUPER DWARFS EXTRA CHOICE BLEND.** Giant flowers on plants having the ultimate in dwarf habit. Bred strictly for pots and combinations. Many bi-colors. Very low percentage of small flowered.

Pkt., \$1.00; 1/16 oz., \$5.00; 1/8 oz., \$9.00; 1/4 oz., \$17.50; 1 oz., \$65.00.

**5704 DWARF GIANTS OF CALIFORNIA.** Especially bred for pot culture. Light and dark shades mixed.

Pkt., \$1.00; 1/16 oz., \$6.75; 1/8 oz., \$12.50; 1/4 oz., \$23.00.



Petunia, Giants of California





Petunia, Popcorn

### Balcony (Hybrida Pendula)

Strong growing 18- to 24-inch plants with spreading or trailing foliage bearing many single plain edged flowers larger than the ordinary bedding types. For garden, window boxes or pots.

**5544 BLACK PRINCE.** Deep velvety red.

1/8 oz., \$1.00; 1/4 oz., \$1.85; 1 oz., \$6.00.

**5536 BALCONY RED.** (Red Prince.) Crimson.

1/8 oz., \$1.00; 1/4 oz., \$1.85; 1 oz., \$6.00.

**5532 BALCONY BLUE.** Deep violet-blue.

Pkt., 15c; 1/8 oz., 80c; 1/4 oz., \$1.50; 1 oz., \$4.50.

**5538 BALCONY ROSE.** Vivid rosy pink.

Pkt., 15c; 1/8 oz., \$1.00; 1/4 oz., \$1.85; 1 oz., \$6.00.

**5558 BALCONY MIXED.** Several colors.

Pkt., 15c; 1/8 oz., 80c; 1/4 oz., \$1.50; 1 oz., \$4.50.

Petunia, Elk's Pride



### POPCORN PETUNIA

Is a new Grandiflora single plain-edged variety identical in flower form and size of bloom with Snowstorm. However, it is earlier blooming, and its habit is exceedingly dwarf and compact. Excellent for pot work and bedding. Unquestionably will replace Snowstorm for universal use.

Pkt., \$1.50; 1/128 oz., \$1.75; 1/64 oz., \$3.00; 1/32 oz., \$5.25; 1/16 oz., \$9.00; 1/8 oz., \$15.75; 1/4 oz., \$27.00.

### Double Ruffled Petunias

**BALL'S CANADIAN ALL DOUBLE LARGE FLOWERING.** All Double Formula Mixture A blend made of the various All Double Mixtures now available, to which have been added separate colors to the right proportion.

1/2 trade pkt., \$2.50; trade pkt., \$4.00; 1/128 oz., \$7.60; 1/64 oz., \$14.45; 1/32 oz., \$28.00.

**BALL'S COLOSSAL SHADES OF ROSE IMPROVED.** Giant double blooms up to 5 inches or more across on vigorous, compact plants. Containing 80% rose and new salmon shades. Makes fine 4- to 5-inch pot plants for Easter. Mother's Day and spring combinations.

1/2 tr. pkt., \$2.50; 1 tr. pkt., \$4.00; 1/128 oz., \$7.60; 1/64 oz., \$14.45; 1/32 oz., \$28.00.



Double Petunias

### Large Plain Edged Types

#### Grandiflora Single Plain Edged

Free flowering 12- to 16-inch plants, some varieties spreading, others compact. Many plain edged flowers of heavy substance and velvety texture. Prime favorite of florists.

**5644 DAZZLER.** New brilliant scarlet, compact.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**5636 ELK'S PRIDE.** Darkest velvety purple.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**5734 ROYALTY.** Rich purple with white star.

Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.50; 1/4 oz., \$15.00.

**5662 SNOWSTORM IMPROVED.** Best florist white, yellow shaded throat.

1/64 oz., \$1.50; 1/32 oz., \$2.25; 1/16 oz., \$4.00; 1/8 oz., \$7.50; 1/4 oz., \$14.00.

**5652 WHITE CLOUD.** Pure white, compact.

1/64 oz., \$1.50; 1/32 oz., \$2.25; 1/16 oz., \$4.00; 1/8 oz., \$7.50; 1/4 oz., \$14.00.

**5668 SPECIAL MIXTURE.** A special grandiflora type mixture. Large, plain-edged flowers including Popcorn, Dazzler, Elks Pride, Flaming Velvet, Royalty—to give a wonderful combination of color.

1/64 oz., \$1.50; 1/32 oz., \$2.25; 1/16 oz., \$4.00; 1/8 oz., \$7.50; 1/4 oz., \$14.00, postpaid.



## Pan American All Double Petunias

**ALLEGRO.** Bright deep salmon. Flowers  $3\frac{1}{2}$  to 4 inches, fully fringed and double. Plant dwarf, strong and vigorous. Free base branching. 12 inches. For bedding, pots and borders.

**CAPRICE.** Bright rose color. Other characteristics same as Allegro.

**MINUET.** Orchid-lavender color, some variegated. Semi-tall, about 18 inches. Suggest pinching for more dwarfness and better branching. Near 100% grandiflora. Flowers  $3\frac{1}{2}$  to 4 inches, well fringed. Use for pots, boxes and bedding.

**NOCTURNE.** Color midnight-violet-purple. Medium to large, 3 to  $3\frac{1}{2}$  inches, fringed and fully double. Not 100% grandiflora. Plant medium dwarf, 15 inches for garden bedding and pots.

**RHAPSODY.** Color burgundy-wine-purple. 100% grandiflora.  $3\frac{1}{2}$  to 4 inches, fully fringed full double. Plant dwarf and compact, free base branching, 12 inches tall.

**SONATA.** Pure white. 100% grandiflora. Deeply fringed and full double. Plant medium dwarf, 18 inches tall. Offered for general flower culture. Suggest March 1st sowing on Vermiculite for May 1st setting. Pinch back for dwarfness and better branching.

All of the foregoing: Retail pkt., \$1.10;  $\frac{1}{2}$  tr. pkt., \$2.75; tr. pkt., \$4.50;  $1/128$  oz., \$8.50;  $1/64$  oz., \$16.00;  $1/32$  oz., \$29.50, postpaid.

**GLORIOUS MIXTURE.** A formula mixture of all of the above mixed by Pan American in well balanced and selected proportions. Over 98% grandiflora. Dwarf to medium dwarf in height, averaging 15 inches. For general use. Pinch taller plants to uniform height and transplant all seedlings, not just the taller plants to assure a color balance.

Retail pkts., \$1.00;  $\frac{1}{2}$  tr. pkt., \$2.25; tr. pkt., \$4.00;  $1/128$  oz., \$7.60;  $1/64$  oz., \$14.45;  $1/32$  oz., \$28.00, postpaid.

## Pansies

(12,000 seeds per oz.)

They like a cool, moist soil and protection from the wind as well as the noon-day sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the spring, the seed should be sown in August or September and the plants protected with a cold frame during the winter. May also be sown out-of-doors in the spring for late summer and fall flowers.

**SUPER SWISS GIANTS.** This mixture combines the finest selections of several Pansy specialists, the perfect blending is further insured by the addition of separate colors that do not generally appear in the average mixtures.

$\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$35.00.

**SUPER MAPLE LEAF MIXTURES "CANADIAN GIANTS."** A selection of the distinct variety Maple Leaf Giants, having large leaves of a rich dark green and flowers of gigantic size and heavy substance, with good stems, in a beautiful color range. Plants of compact and sturdy growth.

$\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$35.00.

Pansies



## Phlox Drummondii

(18,000 seeds per oz.)

**GRANDIFLORA MIXED.** 12 inches. Unsurpassed for variety of color.

$\frac{1}{4}$  oz., 60c; 1 oz., \$2.00, postpaid.

### NANA COMPACTA—Dwarf Varieties

**DWARF GLOBE MIXED. NANA COMPACTA.** A well balanced mixture in a full range of brilliant colors. Plant very even. 7 inches tall.

$1/16$  oz., 90c;  $\frac{1}{8}$  oz., \$1.50;  $\frac{1}{4}$  oz., \$2.60; 1 oz., \$8.00.

**DWARF BEAUTY MIXED.** A fine dwarf flowering strain of Dwarf Phlox, excellent for pot culture, combination and border planting. Plant compact, florets twice the size of regular strain. 8 inches tall. A mixture of the following colors: Blue, Crimson, Mauve, Pink, Salmon, Scarlet, Violet and White.

$\frac{1}{8}$  oz., 85c;  $\frac{1}{4}$  oz., \$1.25; 1 oz., \$3.50, postpaid.

**DWARF "JEWEL-LIKE" PHLOX, "TWINKLE."** Dwarf star mixed. Flowers are like tiny stars, some with pointed tip, zoned in contrasting color; others are of the eyed sorts. Neat, dwarf, tightly formed plants, growing but 8 inches high. Ideal for beds, borders, pots and combination work.

$\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$3.00; 1 oz., \$9.00, postpaid.

**SCARLET, LARGE FLOWERING.**  
Pkt., 25c.



Phlox Drummondii

**Pinks** (DIANTHUS) (A)

(28,000 seeds per oz.)

**SINGLE GAIETY** (Heddiwegi laciniatus). Combining all the brightest and most brilliant shades of the single flowers. $\frac{1}{4}$  oz., 50c; 1 oz., \$1.50, postpaid.**DOUBLE GAIETY** (Heddewegi laciniatus). Plants are dwarf, compact, 10 to 12 inches, lacinated petals. Carnation shades, mixed. $\frac{1}{4}$  oz., 50c; 1 oz., \$1.50, postpaid.**Portulaca** (ROSE MOSS) (A)

(300,000 seeds per oz.)

This plant will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and soon the loveliest of floral carpets will appear.

**BEST DOUBLE MIXTURE.**Pkt., 15c;  $\frac{1}{4}$  oz., \$1.00; oz., \$3.25.

Double Portulaca

**Scarlet Runner** (A)

(30 seeds per oz.)

A very rapid grower, bearing sprays of bright scarlet, pea-like flowers from early summer to late fall.

Pkt., 10 seeds, 10c; oz., 15c;  $\frac{1}{4}$  lb., 30c.

Garden Pinks

**Poppies**

(73,000 seeds per oz.)

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

**SHIRLEY, SINGLE MIXED.** Lovely and dainty shades, many edged and shaded with other colors. $\frac{1}{4}$  oz., 25c; oz., 75c.**SHIRLEY, DOUBLE MIXED.** Beautiful double satiny flowers in shades of white, pink and old rose with white centers. $\frac{1}{4}$  oz., 25c; oz., 75c.**DOUBLE SHIRLEY, SWEET BRIAR.**

Pkt., 25c.

**AMERICAN LEGION.**

Pkt., 25c.



Shirley Poppies

**Salpiglossis** (A)

(125,000 seeds per oz.)

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped, much like Petunia but rivaling the latter in the beautiful colors displayed. Nearly every flower is veined with a glint of gold. Flowers are large and last well in water, really better than on the plants. Large Flowering Mixed.

 $\frac{1}{4}$  oz., 40c; 1 oz., \$1.25, postpaid.**PRIMROSE, SHOWY EVENING** (Oenothera lamarckiana). Pkt., 25c.**PRIMULA.** Malacoides, New Baby. Pkt., 50c.**RANUNCULUS.** Pkt., 25c.

All of our flower seeds will be packeted at 15c per packet unless otherwise priced. We cannot sell or packet anything smaller.





Salvia

**Salvia (FLOWERING SAGE) (A)**

(7,500 seeds per oz.)

A hedge or bed of Salvias is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about 1/4 inch deep; transplant when soil is well warmed, about 12 to 18 inches apart.

**AMERICA.** (Globe of Fire.) 20 inches tall. Early dwarf. 1/4 oz., \$1.50; 1 oz., \$4.50.

**BLAZE OF FIRE.** 14 inch. Bright scarlet. Earliest of all. 1/4 oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$22.00.

**BONFIRE.** About 2 ft. tall, compact, early. 1/4 oz., \$1.25; 1 oz., \$4.25; 4 ozs., \$13.50.

**FARINACEA.** Blue bedder. Deep blue. 3 ft. tall. 1/4 oz., \$1.50; 1 oz., \$4.50.

**FIREWORKS.** 10 inches tall and an improvement on St. John's Fire. 1/8 oz., \$1.75; 1/4 oz., \$3.00; 1 oz., \$10.00; 4 ozs., \$35.00.

**SALVIA SPLENDENS.** About 2 1/2 ft. tall. The standard late tall scarlet. 1/4 oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$12.00.

**ST. JOHN'S FIRE.** 12 inch. Extra early bright scarlet, uniform and compact. An excellent strain. Tr. pkt., 75c; 1/4 oz., \$2.50; 1 oz., \$7.50; 4 ozs., \$28.00.

**IMPORTED SALVIA SEED**

**SALVIA SPLENDENS.** 24 inch.

1/2 oz., \$1.00; 1 oz., \$1.75; 4 ozs., \$6.00, post-paid.

**CLARA BEDMAN or BONFIRE.** 18 inch.

1/2 oz., \$1.50; 1 oz., \$2.50; 4 ozs., \$8.00, post-paid.

**ST. JOHN'S FIRE.** 10 inch.

1/2 oz., \$3.50; 1 oz., \$6.50; 4 ozs., \$22.00, post-paid.

**EXTRA DWARF SCARLET PYGMY** (Fireball or Scarlet Piccolo). A new, very compact and well-branched variety blooming as early as St. John's Fire but is 2 to 4 inches shorter. Especially good for early pots and flats. 1/2 oz., \$3.50; 1 oz., \$6.75; 4 ozs., \$26.00, post-paid.

**Scabiosa (A) (Mourning Bride)**

(3,500 seeds per oz.)

**GRANDIFLORA MIXED.** Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends.

Pkt., 25c; 1/4 oz., 50c; oz., \$1.50.

**OXFORD BLUE.** Pkt., 25c.

**CAUCASICA.** Lavender-blue.

Pkt., 50c.

**Rust-Proof Snapdragon**

(ANTIRRHINUM)

(220,000 seeds per oz.)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced on immense long spikes, which render them well adapted for cut flowers. These strains are the finest obtainable.

**MARDI GRAS.** It is an F<sub>2</sub> hybrid mixture with an extremely wide color range, and extra vigor this method of breeding affords. The plants are normal height. The factor of earliness is well worth having for it enables the variety to reach full bloom ahead of the hottest weather, which so seriously affects Snapdragon quality. Every color including many bi-tones and bi-colors is bred in this mixture, except blue.

1/4 oz., \$1.50; 1 oz., \$4.50.

**SUPER MAJESTIC.** Half dwarf mixed. An exceptionally good variety for plant sales and bedding work to which we have added "Royal Crimson" for the darker shades. 16-20 inches.

1/4 oz., 85c; 1 oz., \$2.50; 4 ozs., \$7.50.

**VELVET GIANTS.** Deep velvet-red. Not a tetra, but looks like one. Tremendous size and vigor.

1/4 oz., \$1.25; 1 oz., \$4.00.

**LARGE FLOWERING.** Tall. 2 1/2 ft. Majus Grandiflorum, University of California De Luxe Mixture. "Cherry Rose," a most brilliant shade of deep cherry-rose, and "Padre" a glistening crimson, have been added to the mixture for darker shades.

1/4 oz., 85c; 1 oz., \$2.50; 4 ozs., \$7.50.

**PADRE.** A glistening crimson, rich and beautiful, large flowering, tall. 2 1/2 ft.

1/4 oz., \$1.25; 1 oz., \$3.75.

**COLOSSAL STRAIN.** (Colossal Snapdragons.) Finest mixed. The tremendous vigor that produces strong 3-ft. stems filled with very large florets even under adverse conditions "Velvet Giant," a deep velvet-red, and "Crimson," a fiery crimson, have been added to the mixture for darker shades. All colors blended.

1/4 oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$14.00.

**CRIMSON.** Maximum size 3 ft. Color fiery crimson.

1/4 oz., \$1.50; 1 oz., \$4.50.

**GIANT RUFFLED TETRA SNAPDRAGONS, CRIMSON.** Large, deep, but bright velvety flowers closely set on long, broad, tapering spikes. Dark green, thick-textured foliage.

1/4 oz., \$3.50; 1 oz., \$12.00.

**GIANT BEDDING WHITE.** R. R. Pkt., 25c.

**GIANT BEDDING PINK.** R. R. Pkt., 25c.

**GIANT BEDDING YELLOW.** R. R. Pkt., 25c.

**GIANT BEDDING MIXED.** R. R. Pkt., 15c.

**TETRAPLOID SUPERFINE MIXTURE.** (Tetra Snap.) The most satisfactory outdoor Snapdragon offered today. Plants tall, husky and erect, with huge ruffled florets and long spikes. The outstanding variety for plant growers.

1/4 oz., \$1.50; 1 oz., \$4.50.

**DWARF SORTS. MAGIC CARPET MIXED.** A Snapdragon of almost creeping habit, fairly covered during the summer with flowers. Useful for border or rock garden.

1/4 oz., 90c; 1 oz., \$2.75.

Snapdragons





Sweet Peas

**Stocks (A)**

(19,000 seeds per oz.)

**NEW TRYSONIC GIANT IMPERIAL.** Double flowering. 2½ feet tall.

1/32 oz., 90c; 1/16 oz., \$1.50; 1/8 oz., \$2.60, postpaid.

**DWARF LARGE FLOWERING "TEN WEEKS."** The favorite sort for bedding. Grows about 1 foot high. Mixed all colors.

1/4 oz., 60c; 1 oz., \$1.85; 4 ozs., \$4.00, postpaid.

**BLOOD RED.** Ten Weeks Stocks.

1/4 oz., 60c; 1 oz., \$1.85; 4 ozs., \$4.00, postpaid.

**MAMMOTH DOUBLE BEAUTY OF NICE.** Just as early as the Dwarf Ten Weeks variety, forming plants pyramidal in shape. Height 18 inches.

1/4 oz., 50c; 1 oz., \$1.75.

**GIANT IMPERIAL CRIMSON.** Pkt., 25c.**GIANT IMPERIAL PURPLE.** Pkt., 25c.**GIANT IMPERIAL ROSE-PINK.** Pkt., 25c.**GIANT IMPERIAL GOLDEN BALL.** Pkt., 25c.

Trysonic Giant Imperial Stocks



# Beautiful Sweet Peas

(340 seeds per oz.)

**Cuthbertson Mixed**

(Spring Flowering)

A great many people prefer to grow Sweet Peas in the mixed colors. Our superb Cuthbertson Mixture is made up of all the best varieties obtainable. The greatest care is taken to insure a well balanced range of colors and worthy of a place in any garden.

Pkt., 15c; 1 oz., 25c; 1/4 lb., 85c; 1 lb., \$2.50.

**Cuthbertson****In Separate Colors****DANNY.** Blue.**RUTH.** Deep rose-pink.**DAVID.** Rose-crimson.**KENNETH.** Crimson.**EVELYN.** Cream-pink.

Any of the above: Pkt., 25c.

**FLORIBUNDA SWEET PEA.** It has heat resistance, long stems, tall, vigorous vines, and with proper culture will produce five or more large, fragrant flowers per stem. It is now available in five colors.

**PEGGY.** White.**SALMON-CREAM-PINK****LAVENDER****TOMMY.** Blue.**MAUVE**

In pkts. only at 25c each.

**PERENNIAL SWEET PEAS** (*Lathyrus latifolius*). (Hardy Sweet Pea). Very decorative, climbing vine of the Pea family for growing on fences, trellis, etc., and for cutting. Blooms all summer if the seed pods are removed. Mixed.

Pkt., 25c; 1 oz., \$2.50.

**SCHIZANTHUS, Dr. Badger.** Pkt., 25c.**SENSITIVE PLANT.** Pkt., 25c.**SNOW-ON-THE-MOUNTAIN.** Pkt., 25c.**STATICE.** Mixed. Pkt., 25c.**SWEET WIVELSFIELD.** Pkt., 25c.

Sweet Wivelsfield





**Sweet William (P)**

(31,000 seeds per oz.)

This sturdy, reliable, old-fashioned favorite is still a source of delight in the garden of today. Seed may be sown at any time from spring to midsummer. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. It is best if you give slight protection during the winter. It likes warm, rich soil. 2 feet.

**DOUBLE MIXED.** This mixture you will find of superior quality, containing all colors and shades.

1/4 oz., 35c; 1 oz., \$1.00.

**DOUBLE FLOWERED DWARF MIDGET MIXED.** Six inches. A dwarf variety ideally adapted for early flowering, and for the perennial border as well as pot plants.

1/4 oz., 90c; 1 oz., \$3.00.

**DWARF DARK CRIMSON.** A color selected from the popular Midget Sweet William so important for spring sales. Plants are identical with the Midget strain.

1/4 oz., \$1.75; 1 oz., \$6.00.



Sweet William

**Sunflower (HELIANTHUS) (A)**

(700 seeds per oz.)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 feet.

**DOUBLE CHRYSANTHEMUM-FLOWERED.** Large, golden yellow flowers, resembling a Chrysanthemum.

Pkt., 10c; 1 oz., 85c.

**RED and GOLD.** Pkt., 15c.

**Verbena (A)**

(12,500 seeds per oz.)

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

**MAMMOTH MIXED.** Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple.

1/4 oz., 75c; 1 oz., \$2.00.

**SPECTRUM RED.** Bright red. 16 inches tall.

Pkt., 15c; 1/4 oz., 90c; 1 oz., \$3.00.

**BUSH TYPE.** Mixed. Plants of uniform bushy habit, about 8 to 10 inches high, dense flower heads closely massed across the flat-topped plants. Most suitable for borders. This mixture will include "Firelight," Roselight, Salmon Queen, Snow White, Starlight, as well as others selected from introducer's breeding grounds.

Pkt., 10c; 1/8 oz., 60c; 1/4 oz., \$1.00; 1 oz., \$3.50.

**HYBRIDA COMPACTA.** Dwarf Master Blend. Mixed colors. The flowers appear when plants are quite small and retain their color and habit throughout the entire season. Plants are very compact and dwarf and the bright colors are in a wide range, many with eyes. Well adapted for pot culture, combinations, window boxes and narrow borders.

1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.25, postpaid.

This will include Crystal, a pure white, and Sparkle, a bright scarlet-red.

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We will supply separate colors of the above mixtures on special order.

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**VIOLA, Blue Perfection.** Pkt., 25c.

**VIOLA, Mixed.** Pkt., 25c.

**VINCA, Mixed.** Pkt., 25c.

**VIRGINIAN STOCK, Mixed.** Pkt., 25c.

**WILD GARDEN MIXTURE.** Pkt., 25c.



Verbena

## Zinnias (A) (2,500-4,000 seeds per oz.)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

**BLAZE.** All-America Winner 1954. Brilliant mandarin-red flowers which soften to scarlet-orange as the flowers attain size. Free blooming, uniform plants 28 to 32 inches tall.

1/8 oz., 35c; 1/4 oz., 60c; 1 oz., \$2.00; 4 ozs., \$7.50, postpaid.

**ORTHO-POLKA.** Large flowers of peppermint stick coloring. Flowers 4 inches in diameter, plants 3 feet tall. See it in color, inside back cover.

1/8 oz., 60c; 1/4 oz., \$1.00; 1 oz., \$3.00; 2 ozs., \$5.50, postpaid.

**PEPPERMINT STICK** (Striata). Flower petals are striped in various color combinations, red and white, red and yellow, purple and white, carmine and white, orange and yellow. Approximately 70% striped. Finest mixed.

1/4 oz., 40c; 1 oz., \$1.25, postpaid.

**GRACILLIMA, Red Riding Hood.** Miniature deep scarlet flowers. Plant 1 1/2 to 2 feet apart.

1/4 oz., 40c; 1 oz., \$1.25.

**PERSIAN CARPET.** Fully double, ball-shaped flowers of miniature type, with cutting stems borne on low, mound-shaped border and edging plants.

1/4 oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00, postpaid.

**CALIFORNIA GIANTS.** Plant 3 to 4 feet tall. The flowers are gigantic in size, thickly set with velvety petals. Its long stems adapt it for popular vase flower.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

**LAVENDER.**  
Pkt., 25c.

**ROYAL PURPLE.**  
Pkt., 25c.

**SCARLET FLAME.**  
Pkt., 25c.

**LIGHT ROSE.**  
Pkt., 25c.

**GOLDEN YELLOW.**  
Pkt., 25c.

**LIGHT ORANGE.**  
Pkt., 25c.

**PINK.** Pkt., 25c.  
**LIGHT YELLOW.**  
Pkt., 25c.

**ORANGE and GOLD.**  
Pkt., 25c.



Zinnia, California Giant

**GIANT DAHLIA-FLOWERED.** Height 2 1/2-3 ft. In formation the broad petals are imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the show Dahlias.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

**DAHLIA-FLOWERED CRIMSON.** Pkt., 25c.

**DAHLIA-FLOWERED ORANGE AND GOLD.** Pkt., 25c.

**DAHLIA-FLOWERED SCARLET.** Pkt., 25c.

**LILLIPUT DOUBLE MIXED, or "POMPON."** Height 1 1/2 feet. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a Daisy flower in size. They are pretty plants.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

**LILLIPUT "TOM THUMB" MIXTURE.** Small, double flowers cover the plants which grow 8 to 10 inches high. Finest mixed with a nice range of colors.

1/4 oz., 50c; 1 oz., \$1.50, postpaid.

**FANTASY.** This Zinnia produces a composed mass of shaggy-like petals of medium sized double flowers, very colorful, including brighter shades of red and orange, pastel pinks and cream.

Oz., \$1.25; 1/4 lb., \$3.50; 1 lb., \$11.00, postpaid.

**GIANT CACTUS-FLOWERED.** Pkt., 25c.

**INDIAN SUMMER GIANT MIXTURE.** Pkt., 25c.

**ALL GIANT PASTEL MIXTURE.** Pkt., 25c.

**CREeping ZINNIA.** Pkt., 25c.

**CUPID TINY TIM.** Pkt., 25c.



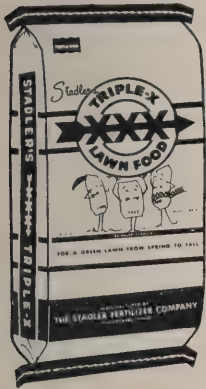
Lilliput  
Zinnias



# For Better Lawns and Gardens

## SPECIAL PLANT FOODS AND FERTILIZERS

On items where prices are not listed, please ask for current market quotation on quantity desired. All prices will be quoted f.o.b. Grand Rapids, Michigan.



**STADLER'S TRIPLE XXX.** This popular lawn food is a 10-6-4 analysis with an all organic base, which stimulates lush growth and builds up deep root growth and humus. 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. bags.

**STADLER'S GARDEN GRO.** Analysis 4-12-4. Recommended for vegetables and flowers, shrubbery and trees. 5-lb., 10-lb., 25-lb., 50-lb. and 100-lb. bags.

**STADLER'S ROSE FOOD.** Analysis 7-8-5. Use this deluxe, completely balanced food for best results in Rose culture. Includes the necessary organic materials with all vital minerals added. 5-lb., 10-lb., 25-lb., and 100-lb. bags.

**TURF FOOD (Loma).** Another complete plant food with an analysis of 10-6-4, plus organic material for general lawn and garden use. 40-lb. and 80-lb. bags.

**LOMA.** Analysis 8-8-8. A mineralized concentrate for special feeding. Packaged only in 100-lb. bags.

**LOMA.** Analysis 5-10-5. Also a concentrate containing all trace elements. Packaged only in 80-lb. bags.

**VIGORO.** A complete plant food for general use. In 1-lb., 5-lb., 10-lb., 25-lb., and 50-lb. bags.

**GOLDEN VIGORO.** Does not burn. In 50-lb. bags only.

**SWIFT'S RED STEER FERTILIZERS.** All standard analyses. 80-lb. bags. Ask for current prices.

**SWIFT'S SPECIAL 12-12-12.** Used extensively for early spring feeding of lawns and gardens. 80-lb. bags.

**LAWN & GARDEN CYANAMID.** This is a unique product that can be used in many ways. It contains 20% nitrogen which makes it an excellent concentrated plant food for both old and new lawn building. Highly recommended for Asparagus feeding and other general garden use. Used for compost building and is an excellent weed control when first applied.

### PLANT MARVEL

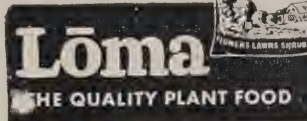


Analysis 12-31-14. Applied in liquid form acts as a starter solution, immediately supplying the three major elements of nitrogen, phosphoric acid and potash, as well as the essential minor elements needed in just the proper proportions that the young plants can most effectively use them.

Plant Marvel used as a solution in transplanting Tomato plants to the field will reduce shock to the plants and practically eliminate wilting.

Plant Marvel stimulates greater root development, faster growth, earlier maturity and more uniform ripening of the Tomatoes. Yields have been increased from one to four tons per acre.

Trial size, 35c; ½ lb., 75c; 1 lb., \$1.25; 5 lbs., \$4.50; 10 lbs., \$8.75.



### ORGANIC FERTILIZERS

**MILORGANITE** is a natural unadulterated plant food. The effects on growth are long lasting, high in purity, non-burning and is easy to use. Recommended for lawns, trees, shrubbery and gardens.

**SHEEP MANURE.** Is processed and weed free. In 5-lb., 10-lb., 25-lb., and 50-lb. bags.

**CATTLE MANURE.** Is processed and weed free, and will not burn. Recommended for Rose Culture. In 5-lb., 10-lb., 25-lb., and 50-lb. bags.

**DRICONURE.** A balanced combination of processed manures and peat moss. A real soil builder. In 1-lb., 7½-lb., 25-lb., 50-lb., and 80-lb. bags.

**BONEMEAL.** Steamed. An excellent source of organic phosphate, recommended for Rose culture and bulbs. In 5-lb., 10-lb., 25-lb., 50-lb., and 100-lb. bags.

### CONCENTRATES AND SOIL CONDITIONERS

Ammonium Nitrate  
Nitrate of Soda  
Sulphate of Ammonia

Super Phosphate  
Muriate of Potash

### Soil Conditioners

Borax  
Ground Limestone  
Phosphate Rock  
Hydrotite  
Manganese Sulphate  
Aluminum Sulphate  
Copper Sulphate  
Zinc Sulphate  
Iron Sulphate (Ferrous)

Magnesium (Epsom Salt)  
Cyanamid  
Krilium  
Green Gold  
Soil Life  
Fertilife  
Peat Moss  
Vermiculite

## Test Your Soil

ONLY  
\$2.98

For this famous



### Sudbury Soil Test Kit

It's first aid to amateurs for finer lawns, flowers, vegetables—the fancier's guide to prize-winning blooms. Shows how to give your soil the right kinds and amounts of fertilizers for all your flowers, vegetables, etc. (125 listed). Also whether lime is needed and how much. Easy to use, intensely interesting, no knowledge of chemistry needed. Ten-minute test tells more than a lifetime of gardening.

**SPECIAL**—complete equipment, instructions and solutions for 20 tests, for nitrogen, phosphorus, potash, acidity.

2 Minute Acidity Kit Model .....\$1.49  
Home Garden Model (illustrated) .. 2.98  
Popular Gardening Model ..... 5.89  
Horticultural Model B .....14.95  
DeLuxe Professional Model A .....29.95  
Not Postpaid

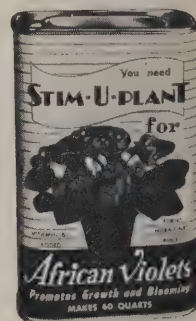
**NOTICE.** All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.



## SOLUBLE FERTILIZERS

### STIM-U-PLANT

COMPLETE



**STIM-U-PLANT Potting Soil.** A rich fresh loam scientifically prepared with the right amount of organic matter to make a ready to use RICH SOIL, makes all plants grow and blossom. 1½-lb. pkg., 25c; 4-lb. pkg., 49c.

**STIM-U-PLANT African Violet Soil.** Potting soil. A special soil prepared for this particular plant. 1½-lb. pkg., 25c; 4-lb. pkg., 49c.

**STIM-U-PLANT Plant Tablets.** The original plant tablets to pep up your plants. 30 tablets, 25c; 100 tablets, 75c.

**STIM-U-PLANT African Violet Food.** Promotes growth and blooming. Used and tested by commercial growers for several years. ¾ oz., 15c; 3 ozs., 35c; 7 ozs., 60c.

**STIM-U-PLANT Peat Humus.** A highly organic material in demand for conditioning soil and making special soil mixtures. 1-lb. pkg., 25c; 3-lb. pkg., 49c.

#### STIM-U-PLANT ROSE FOOD.

This special Rose Food is formulated for use only on Roses. It is made to feed the Rose bush over a long period of time and produces blooms with beautiful color. 1½-lb. bag, 29c; 5-lb. bag, 79c; 10-lb. bag, \$1.50; 25-lb. bag, \$2.75. Not postpaid.

**STIM-U-PLANT SELKAPS.** No messy spray to damage plants. Controls insects on African Violets, Geraniums, Ferns, Ivy, Philodendrons, Mums or Cyclamen. 24 5-gr. capsules (with full directions in box), \$1.00; Pkg. of 5 5-gr. capsules, 25c.

**IVY PHILODENDRON PLANT FOOD.** 24 capsules, 25c.

**STIM-U-PLANT ROOTING MEDIUM.** For African Violets. Soak thoroughly with water. Insert leaf or cutting, pressing lightly around leaf. Do not pack. 14-oz. net weight, 49c.

## HYPONEX PLANT FOOD

### Analysis 7-6-19

Grows superior plants in soil, sand or water (contains Vitamin B-1.) With Hyponex and water, plants grow luxuriantly, flower abundantly, and develop sturdy growth regardless of the poorness or sterility of the soil. Hyponex is ideal for hydroponics—the science of growing plants without soil. A teaspoonful makes a gallon of liquid plant food, which is enough for one watering of house plants in the average home. A 1-lb. can is sufficient to make 100 gallons.

1-oz. pkt., 10c; 3-oz. can, 25c; 7-oz. can, 50c; 1-lb. can, \$1.00; 10-lb. drum, \$8.00; 25-lb. drum, \$15.00; 100-lb. drum, \$40.00.

F.O.B. Grand Rapids



Guaranteed by Good Housekeeping

## ALASKA



## Fish Fertilizer

ALL FISH

100% Organic

- 1 GAL. EQUIVALENT TO 200 LBS. OF RAW FISH
- 1 TABLESPOON MAKES 1 GALLON
- DOG AND CAT REPELLENT ADDED
- THE ORIGINAL AND ONLY DEODORIZED FISH FERTILIZER
- USE INDOORS AND OUTDOORS
- FOR ACID AND ANTI-ACID PLANTS
- NO FILLERS OR CHEMICAL BOOSTERS ADDED

**MONEY BACK GUARANTEE**

LOOK FOR THE TOTEM POLE TO BE SURE!

Amazing results have been obtained this past season by the use of this NEW soluble organic fertilizer. Complete directions on each bottle. We strongly recommend you use some of this marvelous new soluble plant food this season. Try it on lawn, flowers, vegetable gardens, African Violets, and other indoor potted plants. Guaranteed analysis:

Organic Nitrogen 4%, Ammoniac Nitrogen 1%, Total Nitrogen 5%, Available Phosphoric Acid 2%, Water Soluble Potash 2%. All of the above derived from fish viscera. Oil of Citronella has been added to prevent dogs and cats being attracted.

4-oz. bottle	\$0.40
8-oz. bottle	.75
1-pt. bottle	1.15
1-qt. bottle	2.00
½ gallon	3.49
1 gallon	6.25

**GARDEN LIFE.** Analysis 10-52-17. This very high analysis producing a total of 79% active plant food units has placed this soluble plant food in a class by itself. Its very high phosphoric content makes it a marvelous transplanting stimulator and its well balanced formula adapts it for all other general-purpose feeding. 2 ozs., 25c; 5 ozs., 50c; 14 ozs., \$1.00; 2 lbs., \$2.25; 5 lbs., \$4.50; 25 lbs., \$19.50.

**KEM LIQUID PLANT FOOD.** 4 ozs., 10c; 12 ozs., 25c; 1 qt., 50c; 1 gal., \$1.00.

### Ra-Pid-Gro Analysis 23-21-17

One of the best soluble fertilizers to use as a foliage plant food. It is well balanced for feeding all types of plants and shrubs. A miracle aid for flowers, vegetables, trees, shrubs and lawns. Used extensively on house plants. 2 ozs., 25c; 8 ozs., 75c; 1 lb., \$1.30; 2 lbs., \$2.50; 5 lbs., \$4.75; 10 lbs., \$9.00; 25-lb. drum, \$21.00; 50-lb. bags, \$42.00.



## RA-PID-GRO

The Original Liquid Plant Food

**PLANT SHOOT.** A formulation of GIBREL. A miracle growth stimulant containing potassium salts, 1000 parts to a million, producing bigger plants, larger blooms, lush, greener lawns. Complete kit, nothing else to buy and no guesswork. Easy and simple directions for amazing results. Small size, \$2.98; large size, \$6.98.

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## SPRAYERS

### 276 Pennant Sprayer

The safest and easiest sprayer to use. Has all seal-tight features. Tank 4-gal. galv. steel. Tank  $7\frac{1}{2} \times 22$  in., adjustable strap. Pump  $1\frac{1}{4} \times 15\frac{1}{2}$  in. Mailing weight 11 lbs. Price, \$19.60.

### 191B Trusty Sprayer

$3\frac{1}{2}$  gal. capacity  $7\frac{1}{2} \times 19\frac{1}{2}$  galv. steel. Sure-Seal cam lock convenient for filling. Adjustable strap. Pump  $1\frac{1}{4} \times 12$  in. brass. Mailing weight 9 lbs. Price, \$10.75.

### 274 Beacon Sprayer

Has all seal-tight features of wide opening and safe sealing. Tank  $3\frac{1}{2}$  gallons, galv. steel  $7\frac{1}{2} \times 19\frac{1}{2}$  in. Adjustable strap. Pump  $1\frac{1}{4} \times 14$  in. brass. Mailing weight 10 lbs. Price, \$17.20.

### 194A Reliable Sprayer

A screw locked pump in Funnel Top sprayer. Tank 4-gal. galv. steel  $7\frac{1}{2} \times 22$  in. Adjustable strap. Pump  $1\frac{1}{4} \times 14$  inch brass. Mailing weight 10 lbs. Price, \$13.65.

### 120B Victor Sprayer

Tank 3 gallons,  $7\frac{1}{2} \times 16\frac{3}{4}$  in. galv. steel. Sure-Seal Camp lock convenient for filling. Comfortable carrying strap. Pump  $1\frac{1}{4} \times 10$  in. with leather plunger. Mailing weight 8 lbs. Price, \$10.25.

### 921B Firegun

With seal-tight features. Tank 4 gallons. Galv. steel  $7\frac{1}{2} \times 22$  in. Heavy adjustable strap.  $1\frac{1}{4} \times 14$  in. brass pump. Burner, seamless steel coils, steel housing, generating pan and wick. 5 feet of  $\frac{3}{8}$  in. oil and chemical proof hose and steel handle. Mailing weight about 18 lbs. Price, \$34.15.

### 256 Gard-N-Gro Sprayer

Tank galv. steel, 2-gallon capacity,  $7\frac{1}{2}$  in. wide, 11 in. high, electrically welded. Pump  $1\frac{1}{4} \times 10$  in. Thumb latch control valve. Any spray nozzle. Mailing weight about 8 lbs. Price, \$12.00.

### 105 Midget Sprayer

A compact, easy to use unit. Ideal for small home or gardens. Tank  $1\frac{3}{4}$  gals.,  $7\frac{1}{2} \times 10$  in., galv. steel. Mailing weight about 7 lbs. Price, \$9.25.

### No. 285 4-Jet Super Mist

14-oz. size. Heavy tin plate lithographed in 2 colors. Mailing weight, packed, about 2 lbs. Price, 77c.

### 290 4-Jet Super Mist

27-oz. size. Large opening for filling. Heavy tin plate lithographed in 2 colors. Mailing weight, packed, about 2 lbs. Price, 89c.

### No. 255 Gem Sprayer

Heavy tin with 5-oz. ribbed green glass jar,  $1\frac{1}{2}$  in. opening. Mailing weight about 2 lbs. packed. Price, 40c.

### 230 Flash

27-oz. heavy tin container. No drip feature. Mailing weight about 2 lbs. Price, 64c.

### 235 Flyer Sprayer

27-oz. heavy tin plate. No drip feature, leak proof. Mailing weight about 2 lbs. packed. Price, 64c.

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**SPRAYERS (Continued)**

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**HUDSON SAF-T-LOK SPRAYER**

NEW! Easy to Seal, Safe to Open



Capacities, 1½ gals. to 3½ gals.  
Prices range from \$9.30 to \$13.85.

New Saf-T-Lok top design assures easy sealing, safe opening, easy filling. Rotatable spray valve, powerful pump. Galvanized steel tank with electrically-welded seams.

**HUDSON SIMPLEX® SPRAYERS**

Easier to Seal, Use—Leakproof

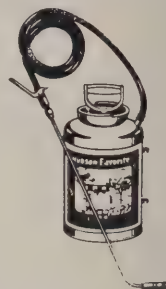


Prices range from \$18.10 to \$20.50.

Easy to use, most dependable compression sprayers. Cover seals from inside. Powerful pump, 7 strokes do work of 10. 4- and 3-gallon sizes. Galvanized or stainless steel.

**HUDSON FAVORITE SPRAYER**

Finest, Lightweight Home Sprayer



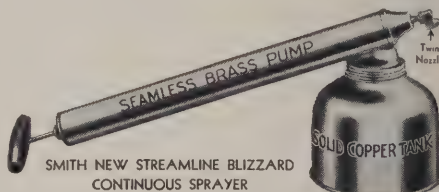
Prices range from \$12.35 to \$24.50.

Finest 2 gal. home sprayer made. 5-spray nozzle—from extra-fine mist to long-distance spray. 5-ft. red plastic hose. New Saf-T-Lok for easy sealing, safer opening.

In addition to the above improved models of Hudson sprayers, we offer over fifty models of both sprayers and dusters of the Hudson line. By means of their new electric selector board the exact model can be determined for any specific need. We will be glad to quote prices and make suggestions.

**No. G-30 Aerial**

Tank capacity about 3½ gals. Constructed of heavy galvanized steel. Pump 12-inch seamless brass tubing with positive acting check valve. 22¼-inch brass extension from which nozzle can be detached. Equipped with nozzle discs to produce 4 patterns of spray. 20-inch durable spray hose, and web carrying strap. Heavy forged brass, leak-proof release valve. Weight about 10 lbs. Price, \$9.57 each.

**No. 14P Continuous Sprayer**

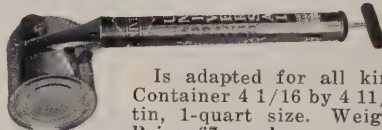
Streamlined, solid copper tank; seamless brass pump 14 in. by 1½ in. Complete sprayer, highly polished and lacquered. Very attractive. Quart size \$5.25.

**No. G-20 Jet**

Same as the above only the capacity is about 3 gallons. Weight about 9 lbs. Price, \$8.78 each.

**No. G-10 Bug-O-Gun**

Tank capacity about 1½ gals. Constructed of heavy galvanized steel. Has attached funnel. Pump 6 inches seamless brass tubing, 12-inch brass extension rod. Nozzle can be detached. 20-inch durable spray hose. Web carrying strap. Heavy forged brass, leak-proof release valve. Weight about 7 lbs. Price, \$8.36 each.

**No. T-232 Raider**

Is adapted for all kinds of spraying. Container 4 1/16 by 4 11/16 inches, heavy tin, 1-quart size. Weight about 2 lbs., Price, 67c each.

No. T-216. Same as above only ¾ pint. Price, 58c each.

**No. D-17 Super Cloud Hand Duster**

Quart size. Has two 12-inch extensions with upshoot nozzles. Pump 8¾ x 2¾ inches. Dust chamber 4½ x 4 inches. Weight about 3 lbs. Price, \$3.56 each.

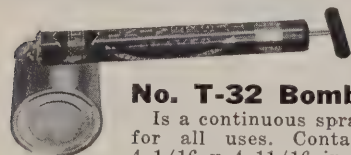
**No. D-15 Cloud Hand Duster**

A very popular pint size. Equipped with one 12-inch extension and upshoot nozzle. Dust chamber 4¾ x 3 inches. Pump 7 x 2¾ inches. Weight about 2 lbs. Price, \$2.48 each.

**No. T-32 Bomber**

Is a continuous sprayer for all uses. Container 4 1/16 x 4 11/16 inches.

1-quart size. Weight about 3 lbs. Price, \$1.54 each.



Be sure to include postage on these items.



# GREENHOUSE SUPPLIES

## Insecticides

**NICOFUME LIQUID.** 8-lb. size, \$11.75.

**NICOFUME PRESSURE FUMIGATORS.**

1/2-lb. boxes—single box	\$0.50
6 boxes	2.75
12 boxes	5.50

1-lb. boxes—single box	.85
6 boxes	5.00
12 boxes	10.00

**BENZOFUME PRESSURE FUMIGATORS.**

1/2-lb. boxes—single box	\$0.30
6 boxes	1.70
12 boxes	3.40

1-lb. boxes—single box	.50
6 boxes	2.80
12 boxes	5.60

## Lethalair Greenhouse Aerosols

Prices quoted subject to change and f.o.b. Grand Rapids. Cylinder returnable, but deposit required as listed.

<b>G-54.</b> 10% Parathion. Net weight 4 lbs.	\$ 8.00
Cylinder deposit	3.75
Shipping weight 12 lbs.	

<b>G-60.</b> 10% Aramite. Net weight 4 lbs.	12.00
Cylinder deposit	3.75
Shipping weight 12 lbs.	

<b>G-61.</b> 2% Lindane. Net weight 4 lbs.	12.50
Cylinder deposit	3.75
Shipping weight 12 lbs.	

<b>V-21.</b> .5% Pyrethrum. Non-toxic to animals or humans when manufacturer's directions are followed. Net weight 5 lbs.	14.50
Cylinder deposit	3.75
Shipping weight 13 lbs.	

## Fulex Smoke Fumigators

**PARATHION SPIDER MITE APHID SMOKE**

These effective killers of greenhouse pests are used on an estimated cubic foot basis. Give us your cubic foot space to be protected and we will quote price of required material for the area. Complete instructions for using are clearly printed on each pressure fumigator.

## Soil Fumigants

**THE ANSWER TO YOUR  
"DAMP-OFF" PROBLEM IS**

# Pano-drench 4

This new damp-off control has been tested extensively by leading universities in many parts of the country as well as many commercial growers. All report remarkable results.

PANO-DRENCH is a highly concentrated liquid and easy to apply. Is used for both vegetables and flowers, and is equally effective in all soils. Use it for flats, pots, benches and outside beds. Just use 1 to 2 teaspoons diluted with 3 gallons of water, produces effective control when applied 24 hours before sowing. Very effective for treating bench soils before transplanting seedlings.

PANO-DRENCH is available in 1-oz., 4-oz. and 16-oz. bottles. One 4-oz. bottle makes 72 gallons of solution and treats up to 200 flats or 300 to 400 sq. ft.

1 oz., \$1.95; 4 ozs., \$5.95; 16 ozs., \$19.20, postpaid.

**LARVACIDE** (Chloropicrin Tear Gas). A complete soil sterilization for all insects, soil diseases and weed control is obtained through the use of this material. Estimate your square foot area to be treated and we will give the estimated cost. Used on benches or ground by special equipment. We offer fumigation service in Western Michigan areas.

**LARVACIDE.** 1-lb. dispenser bottle with complete instructions for use. Price quoted on request.

**PESTMASTER.** Methyl bromide 98%, chloropicrin 2%. These 1-lb. metal, sealed bombs are used with a special applicator for fumigating compost and seed bed soils. We will quote prices on bombs, applicators and visqueen covers needed for a given estimated cubic foot bed or pile of compost.

**BED-DRENCH.** A NEW soil fumigant offered by Niagara. See page 65. 1 1/2 gallon steel drum. Prices quoted and information furnished for using on soils, outside of greenhouse.

**FORMALDEHYDE.** Sold in gallon containers—containers extra at cost. Widely used for soil fumigating, seed treatment purposes. Prices and shipping information given on request.

## Visqueen Polyethylene

The new plastic material which is excellent as a glass substitute for temporary greenhouses, soil fumigation, boat covers, and many other practical uses. Width 8 ft. and 16 ft., gauge .004 m/m, plain. Sold in full factory rolls or any desired length, cut to order. Prices quoted upon application.

## Glazing Materials

<b>GARLANITE PUTTY, NATURAL</b>	
1 gal.	\$4.65
5-gal. lots—per gal.	\$4.50

<b>GARLAND SHADING COMPOUND, GREEN</b>	
25-lb. bags (22c lb.)—per bag	\$ 5.50
50-lb. bags (21c lb.)—per bag	10.50
100-lb. bags (20c lb.)—per bag	20.00

<b>GARLAND SHADING COMPOUND, WHITE</b>	
25-lb. bags (20c lb.)—per bag	5.00
50-lb. bags (19c lb.)—per bag	9.50
100-lb. bags (18c lb.)—per bag	18.00

<b>GARLAND OIL SEALER</b>	
1 gal.	\$4.50
5-gal. lots—per gal.	4.35

<b>COPEX No. 77</b>	
1 gal.	\$3.70
5-gal. lots—per gal.	3.55

**TUNG-WHITE.** For bar painter. If used with a brush it must be cut with 25% linseed oil and turpentine to make it brushable.

1 gal.	\$6.00
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<b>GREENHOUSE STAPLES No. 2.</b> 1000 count	\$1.20
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<b>ZINC GLAZING POINTS.</b> 3/4 inch. 1 lb.	1.10
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**MAKE YOUR GARDEN  
FERTILE, LOOSE & LOAMY**



## WITH AN ALL-PURPOSE W-W COMPOST GRINDER and SOIL SHREDDER

Work miracles with your soil right at the spot with this portable machine that is famous as the gardener's best friend. It shreds, grinds, and screens compost, sod, and leaves, as well as prepares organic matter for compost and mulch. It makes potting soil without additional attachments and mixes compost or fertilizer with the soil. Trash is separated from wanted material. Thousands in use.

Prices start at \$129.00, plus freight. A size and model for every purpose. Write for complete price list and description of all models.

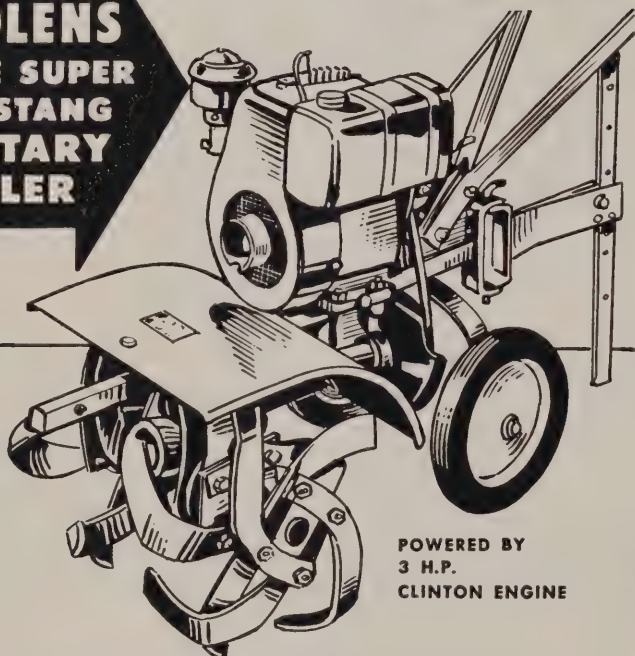
**NOTICE.** All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 2 for mailing cost.

# COSTS LESS than separate units

**Prepares the Seed Bed  
in one Operation!**

## BOLENS Power-Pak COMBINATION ROTARY TILLER and MOWER

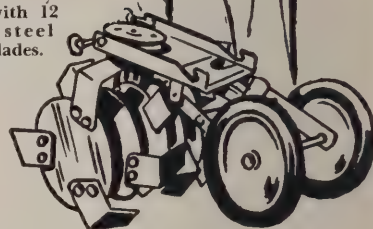
**The New  
BOLENS  
M-E SUPER  
MUSTANG  
ROTARY  
TILLER**



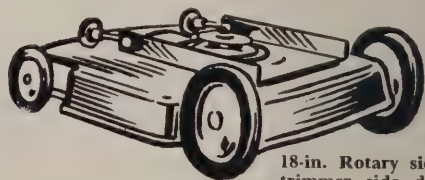
POWERED BY  
3 H.P.  
CLINTON ENGINE

The Super-Mustang Tills, Cultivates, Weeds and Mulches in one operation. Does a year-round job with six Quick-hitch attachments. Exclusive Universal Tines, self-sharpening and guaranteed against breakage. Let us show it to you and demonstrate its operation.

18-in. Rotary  
Tiller with 12  
carbon steel  
hoe blades.



Now combined in one interchangeable unit, you have the perfect Rotary Tiller and Power Mower—all the equipment you need for the care of your garden and lawn.



18-in. Rotary side  
trimmer side  
discharge mower.

Within 60 seconds you change from a powerful Rotary Mower to a Rotary Tiller—without tools. See it today! Get a free demonstration.

## PLANET JR. TOOLS

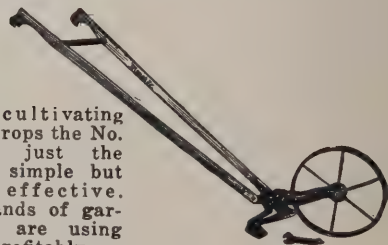
### No. 300 Planet Jr. Seeder

The ideal machine for the market gardener. Drops evenly and accurately any vegetable seed from the smallest up to Bush Lima Beans. New style waved feed wheel does not crush or break Beans or Peas. Hopper can be removed in a few seconds to empty leftover seeds.



### No. 18 Single Wheel Hoe

For cultivating small crops the No. 18 is just the thing; simple but very effective. Thousands of gardeners are using them profitably.





# Niagara



## Fungicides

**KOLOFOG and KOLOSPRAY.** Fused bentonite sulphur product. Excellent sulphur fungicides for fruit diseases. Non-caustic, adhesive.

**NIACIDE.** A new organic fungicide for use on Apples and Tomatoes.

**PURATIZED AGRICULTURAL and APPLE SPRAYS.** Organic mercury spray for Apple scab.

**KOLO 100.** A sulphur-naphtha-quinone combination for Apple scab and brown rot on Peaches.

**CARBAMATE.** A formulation of ferbam for many fruit diseases.

**C-O-C-S.** Copper oxychloride sulphate (55% copper) for late and early blight and certain other diseases of Potatoes, Tomatoes and other vegetables. Available as a spray and in various dust combinations.

**SOLUBLE SULPHUR.** Dormant spray for Peaches.

**KOLODUST.** Fused bentonite sulphur dust for Apple scab, brown rot on stone fruits and various other fruit diseases.

**NABAM.** Liquid zinc dithiocarbamate for Potatoes, Tomatoes and certain other vegetable crops.

## Weed Killers and Plant Hormones

**CHLORO. I.P. C.** Liquid and granular forms.

**NIAGARA STIK.** Spray and dust formulations of naphthalene acetic acid for thinning and preharvest anti-drop applications on Apples.

**COMBINATION DUST AND SPRAY SPECIALTIES.** Insecticide-fungicide combinations made for specific use on specified crops.

Dust and spray formulations available for Cucumbers, Melons, Potatoes, Tomatoes, Onions, Celery, Asparagus, Strawberries, Blueberries, Mint, Apples, Peaches, Cherries, Grapes, etc.

## Insecticides

**LEAD ARSENATE.**

**DDT.** 50% wettable powder; 25 and 33% liquid; 3, 5, and 10% dusts.

**CHLORDANE.** 40% wettable powder; 72% liquid; 5% dusts.

**PARATHION.** 15% wettable powder; 25% liquid; 1%, 1.5% and 2% dusts.

**PYRENONE No. 606 SPRAY.** Used as a grain protectant and fruit fly spray.

**PYRENONE DUST.** Used on vegetable crops.

**TEPP.** 40% tetra ethyl pyrophosphate spray.

**DDD.** 50% wettable powder; 25% liquid; 5% dust.

**ROTENONE.** 5% wettable powder; .75%, 1% and 2.50% dusts.

**DINITRO DRY.** 40% dinitro ortho cresol for dormant spraying.

**LINDANE.** 25% wettable powder; 25% liquid; 1% dust.

**MALATHION.** 25% wettable powder; 50% liquid; 4% dusts.

**NIAGARAMITE.** 15% aramite spray and 2% dust for mites and red spiders.

**DIELDRIN AND ALDRIN.** Liquid concentrate, wettable powders, dusts and granulated formulations.

## Dusters

A complete line of orchard and row crop dusting machines with especially adapted units for muck crops, Blueberries and large capacity fruit dusters. Write for descriptive literature.



NIAGARA  
CYCLO-  
JUNIOR  
DUSTER

**BEFORE PLANTING**

**TREAT**

**YOUR PLANTS**

**and**

**SEED BEDS**

**with**



**BEDRENCH**

**Raise sturdy, weed-free plants  
with healthy roots.**

Write for literature and prices.

**The new easy method of  
soil fumigation.**



### 1100 Pomogreen

For Roses and ornamental plants. Contains Aramite, Lindane, Methoxychlor, Ferbam and Sulphur. Is leaf green in color to blend with foliage. Multi-purpose, can be used either as a dust or a spray to control insects, diseases and mites, aphids, thrips, Japanese beetles, Rose chafer, leaf-roller, Rose weevil lace bugs, caterpillars, red spider, mites and many other chewing and sucking insects, black spot, powdery mildew, rust and other less important diseases.

Comes in an 8-oz. Push-Pull Dust gun in 1-lb. cans and 3-lb. cans.



### 1103 Rotenone Dust or Spray

For many insects on vegetables and flowers. Contains 1% Rotenone and controls Pea aphids, Bean beetles, Cucumber beetles, Diabrotica beetle, Potato beetle, Flea beetle, Asparagus beetle, Cabbage looper, caterpillar, Squash borer. Safe and easy to use. (Non-poisonous.)

Comes in 1-lb. cans and 3-lb. cans.



### 1101 Kolo Fruit Tree Dust or Spray

Contains Kolo Sulphur, DDT, Malathion, all of extremely fine particle size and super adhesive qualities. Formulated for complete insect and disease control during the growing season. Stays in suspension with only light agitation and gives a uniform deposit on the foliage. Multi-purpose, can be used either as a dust or a spray to control insects, diseases and mites; codling moth, curculio, tent caterpillar, case bearer, Rose chafer, plant bug, leaf-hopper, Japanese beetles, Apple maggot, Oriental fruit moth, twig borer, mites and many other chewing and sucking insects. For Peach, Apple and Pear scab, powdery mildew, brown rot of stone fruits and many other less important diseases (3 lbs. makes 25 gals. of dilute spray).

Comes in 1-lb. cans and 3-lb. cans.



### 1106 Chlordane 6 Dust or Spray

Contains 6% Chlordane and controls cutworms, ants, roaches, Japanese beetles, grasshopper, earwigs, leaf miners on Birches and Elms, grubs, termites.

Cutworms attack tomatoes, cabbage, eggplant, peppers, onions, cauliflower, broccoli, and many other vegetable plants and flower seedlings. In order to control this insect we would suggest that you dust Chlordane 6 dust or spray on the surface of the soil, and after the plants have been set, a dusting of this material on each side of the row or in a circle around the plant once a week for a period of 2 or 3 weeks will effect control of this pest.

Comes in 1-lb. cans and 3-lb. cans.



### 1107 10% Chlordane

For ants and many other lawn and garden insects such as grubs, sod webworms, cutworms, grasshoppers, ants, earwigs, crickets and leaf miners on Elms and Birches. It is easy to use and has long residual action.

Comes in 1-lb. cans and 3-lb. cans.



### 1102 Garden Dust or Spray

Insecticide, fungicide-repellent for flowers, vegetables, Cukes and Melons. Contains 1% Rotenone, Pyrethrums, Piperonyl Butoxide and Neutral Fixed Copper. Controls Copper responding fungus diseases, blight, powdery and downy mildew, leaf spots and other minor diseases; insects such as striped and spotted Cucumber beetles, Melon aphids, Squash bugs, Cabbage worms, leaf-roller, Colorado potato beetle, flea beetle, Asparagus beetles.

Contains no lime. Comes in an 8-oz. Push-Pull Dust gun. 1-lb. cans and 3-lb. cans.



### 1109 Blight Dust

A neutral copper fungicide for use in the control of early and late plant blight on Tomatoes, Potatoes, Celery, and many other fungus diseases on vegetables and ornamentals. (Do not use on Beans.)

Comes in 1-lb. cans and 3-lb. cans.



### 1110 Potato and Tomato Dust or Spray

Contains DDT and neutral copper. Controls insects and diseases on Potatoes and Tomatoes such as early and late blight, Colorado potato beetles, flea beetles, leaf-hoppers, horn worms, Tomato worms and many other minor insects and diseases.

Comes in 1-lb. cans and 3-lb. cans.

### Malathion 50% Liquid

A new all-purpose insecticide for ornamentals, trees, fruits, vegetables and buildings. Kills a wide range of insects and is safe to handle.

Packed in pints and 4-oz. bottles.



## Insecticides



### Antrol Ant Traps

The safest Ant Killer to use around children or pets. Contain Thallium, attract sweet and grease eating ants. 25c each; set of 3 traps 69c.



### Antrol African Violet and House Plant Insect Bomb

Kills mealy bugs, mites, aphids, exposed thrips, white flies. This handy insecticide-miticide protects house plants from insects that wither and discolor African Violets, Ivy, Bracken, Philodendron, Rubber Plants and similar plants. Easy to use. Just push button.

6-oz. Aerosol 89c.



### Antrol Ready-Filled Feeders

Handy, economical, refillable feeders for effective extermination of sweet and grease eating ants. Attracted by bait, they carry it back to nest as food.

15c each; set of 4 feeders 50c.



### Ridz Dog Repellent

Keep dogs off your shrubs, plants, trash cans, fences, etc. Ridz is guaranteed to work. Easy-to-use aerosol. No mixing, no pouring, no sprayer to buy.

12-oz. Aerosol \$1.49.



### Antrol Syrup Refill

For refilling feeders. 4-oz. bottle 25c.



### Snarol

For slugs and snails. Metaldehyde-Arsenical bait lures them from plants and shrubs and kills them fast. Meal form or pellets.

1 lb. 50c; 2½ lbs. \$1.00; 6 lbs. \$2.00.



### Antrol Ant Spray

Residual spray containing potent Chlor-dane. Kills ants, roaches, Japanese beetle grubs, termites, chiggers, lawn moths. Handy sprayer attached.

Pt. size 89c. Qt. size \$1.19.



### Lawntrol Granules with Dieldrin

Most effective lawn insecticide, with long lasting residual effect. Kills lawn moths, ants, cutworms, earwigs, sow-bugs (pillbugs), and Japanese beetle grubs. Easy to use, can be broadcast from handy shaker package or mixed with fertilizer and applied with a spreader.

1 lb. 69c; 2 lbs. \$1.25; 5 lbs. \$2.49.



### Antrol "Multi-Purpose" Dust

Use this multi-purpose wettable powder on Roses, flowers, vegetables, shrubs and fruit trees. Contains malathion, captan, methoxychlor and sulphur. Controls black spot and powdery mildew. Kills aphids, Japanese beetles, mites, thrips, earwigs and tent caterpillars. Amazing results when used as a dust or mixed with water and sprayed.

½-lb. plastic squeeze duster ..... \$1.39

1-lb. carton refill ..... 1.49



### Black Flag Push-Button Insect Bomb

Easy finger pressure on push button releases DDT, Allethrin, Methoxychlor and Piperonyl Butoxide for quick knock-down and residual killing action.

New Giant size, 14 ozs., \$1.37.



### Antrol Push-Button Rose Spray Flower Bomb

Just push the button of this original and leading Rose bomb to kill aphids, thrips, leaf-hoppers, mites and Japanese beetles; also controls black spot and powdery mildew. 12-oz. size \$1.19; 15-oz. size \$1.59.



### Flyded Push-Button Insect Killer

Kills flies, mosquitoes, flying moths, gnats. Non-inflammable. Easy to use. Just push the button.

New Giant size—14 ozs., 98c.

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## INSECTICIDES



**TREE TANGLEFOOT.** 6-oz. tube, 90c; 1 lb., \$1.50; 5 lbs., \$7.00.

**TREETOX.** 14 ozs., \$1.25; 4 lbs., \$3.25.



**BLACK LEAF 40.** 1 oz., 49c; 2 ozs., activated, 98c; 5 ozs., \$1.39; 1 lb., \$2.98; 2 lbs., \$5.29; 5 lbs., \$8.35; 10 lbs., \$15.70.



**RED ARROW**  
2 ozs., 75c;  
4 ozs., \$1.25;  
1 qt., \$5.50;  
1 gal., \$18.25.

**EVER GREEN**  
Garden Spray  
Retail prices,  
1 oz., 35c;  
6 ozs., \$1.15;  
1 pt., \$2.45;  
1 qt., \$4.10;



1 gallon, to commercial growers, \$12.60.



## MOSQUITO XTERMINATOR.

Now you can enjoy pleasant evenings out-of-doors. No more pesky mosquitoes to annoy you! Price, 1 lb., \$2.00.

## WE RECOMMEND TRI-GEN



The all-purpose spray for Rose plants. Insecticide, fungicide and plant stimulant all in one.

	Prices
"E" Kits	\$1.50
"A" Kits	2.35
"B" Kits	6.00
"C" Kits	9.00

**TRI-GEN ROSE DUST** is especially recommended as a control for certain insects, but as a fungicide it assists in the control of certain mildews and black spot on Roses. Comes in both the 1-lb. and 5-lb. packages. Prices will be quoted on request.

**TOBACCO DUST.** Finely ground. Sold in bulk, any quantity, or in 100-lb. bags.



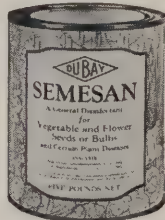
**CYANOGEN A DUST.** Calcium cyanide for killing all rodents. 1-lb. cans, 5-lb. cans.

**CYANOGEN G FUMIGANT.** For greenhouse fumigation or general fumigation of all enclosed spaces. 4-oz. cans, 5-lb. cans, 25-lb. drums.

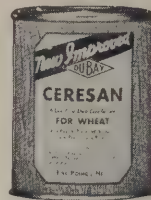
## SEED DISINFECTANTS

**ARASAN.**  $\frac{3}{4}$  oz., 25c; 8 ozs., \$1.00; 2 lbs., \$3.20; 10-lb. bag, \$11.50.

**CERESAN.** New improved for basal and bulb rot on gladioli. 1 lb., \$1.75.



**SEMESAN.** For vegetable and flower seeds. 4 ozs., \$1.20; 12 ozs., \$3.40.



**SPERGON.** 1 oz., 25c; 5 ozs., \$1.00; 1 lb., \$1.25.

**YELLOW CUPROCID.** 3-lb. bags, \$3.00.

**SEMESAN BEL.** Dip treatment for potatoes. 3 ozs., \$1.05; 1 lb., \$3.30; 4 lbs., \$10.65.

## HORMONES

**HORMEX.** (Concentrate.)

Gold Label ..... \$1.39

Silver Label ..... 2.49

**BLOSSOM-SET**

4 ozs. .... \$0.75

1 pt. .... 1.75

**BERRY-SET**

12 ozs. (makes 48 gallons) ..... \$3.00

**VITAMIN B-1**

100 tablets ..... \$0.69

## ROOTONE

$\frac{1}{4}$  oz. (400 cuttings) ..... \$0.25

2 ozs. .... 1.00

**ROOTONE No. 10.** For woody cuttings.

2 ozs. .... \$2.00

**TRANSPLANTONE**

$\frac{1}{2}$  oz. .... \$0.25

3 ozs. .... 1.00



## REPELLENTS FOR RODENTS AND PREDATORY ANIMALS



**POISON P-NUTS.** Kills entire colonies of gophers, moles and ground squirrels.

$3\frac{1}{2}$  ozs. .... \$1.00

1 lb. .... 3.75

**D-CON**

1 lb. .... \$1.69

5 lbs. .... 5.95

**DOGS OFF**

3-oz. bottle ..... \$0.75

**WARFARIN. Concentrate**

4 ozs., \$1.69; 8 ozs., \$2.75; 16 ozs. .... 4.98

**WARFARIN. Read-Mix**

1 lb., 98c; 5 lbs. .... 3.49

**KILL MICE**

Pkt., 25c; 1-lb. box ..... \$1.00

**ZIP.** A repellent for rabbits and deer.

1 qt. .... \$2.95

1 gal. .... 8.75

**FLYING DISCS.** 10 in a pkg. with complete instructions ..... \$0.25

**CHAPERONE**

4 ozs. .... \$0.89

8 ozs. .... 1.29

**GOODRITE NO-NIB'L RABBIT REPELLENT**

6-oz. size ..... \$1.25



BIRD Vita-Bands



VITA-BAND D contains root growth until grower chooses to let root through Band. Only quick, slight pressure is needed to crack Band. Do not remove Vita-Band "D" when transplanting. Band disintegrates in the soil, permitting free growth of roots from time of transplant. Nutrient-treated with quickly available plant food.

VITA-BAND 10 for short growing periods. Will usually contain root growth up to approximately 8 to 10 weeks. Nutrient-treated with quickly available plant food . . . your judgment determines need for additional feeding. Vita-Band 10 is identical to Vita-Band "D" except Vita-Band 10 is removed at time of transplant. Vita-Band "D" is not.

VITA-BAND "D"

	1½x1½	1¾x1¾	2x2	2x2	2½x2½	3x3	4x4	4x4
	x2½	x2½	x2½	x3	x3	x3	x3	x4
Price per 1000	\$4.85	\$5.15	\$5.35	\$6.05	\$6.30	\$7.05	\$9.25	\$11.60
Quantity packed								
per case	2000	2000	2000	2000	2000	2000	1000	1000
Gross weight								
per case—lbs.	18	21	23	28	34	40	27	35

VITA-BAND 10

	1½x1½	1¾x1¾	2x2	2x2	2½x2½	3x3	4x4	4x4
	x2½	x2½	x2½	x3	x3	x3	x3	x4
Price per 1000	\$4.70	\$5.00	\$5.25	\$5.75	\$6.25	\$6.90	\$9.00	\$11.25
Quantity packed								
per case	2000	2000	2000	2000	2000	1000	1000	500
Gross weight								
per case—lbs.	33	38	42	51	63	37	50	33

VITA-GREEN POTS

Nutrient treated for both growing and shipping.

Size 2½ in., packed 48 to carton .....\$0.89  
Size 3 in., packed 48 to carton ..... 1.39

Price	2½ in.	2½ in.	3 in.	3½ in.	4 in.
per 1000	\$7.10	\$8.60	\$12.40	\$14.30	\$16.75
Quantity packed					
per case	2000	2000	2000	1000	1000
Gross weight					
per case—lbs.	17	22	31	20	31



NEW BIRD PEAT POTS

A new rugged transplanting and shipping pot of rich nutrient contents which feeds the plant right from the start and continues until the pot has disintegrated in transplanting. While this new pot has free root penetrating features, still it is very sturdy in construction, which solves the problem of chipping or cracking in handling or shipping. These should be ordered early.

	2½ in.	3 in.
Price per 1000	\$7.00	\$13.00
Quantity packed per case	2000	2000
Gross weight per case—lbs.	22	38



BIRD RED & VITA-POTS

RED: For shipping only. Not recommended for growing. Light weight and sturdily made to protect rootball from breakage—inner wax coating prevents drying out. A "must" to preserve the top quality of your plants in transit. Delivering quality promotes repeat business.

VITA-POTS: For growing and shipping—they are nutrient treated. Growing results are similar to Vita-Bands. VITA-POTS prevent rootball disturbance. No handling and storage of heavy pots. VITA-POTS can be packed quickly and easily for shipment.

	2 in.	2½ in.	2½ in.	3 in.	3½ in.	4 in.	5 in.	6 in.
RED	\$ 9.00	\$ 9.00	\$ 9.10	\$ 9.60	\$12.80	\$15.50	\$19.00	\$23.40
VITA-POTS	14.60	14.95	15.50	17.40	25.70	33.40		



BIRD "Tom Thumb" FLATS

Tom Thumb Flats are made of heavy waterproof fibre resinous material, and we would advise using with the No. 10 band. The most economical way to sell annual plants in dozen lots. Potted plants sell easier at premium prices.

	Per 1000
Sold only in units of 250 sets minimum.	
Tom Thumb Flats—size No. 1 for 1 doz. 1¾-inch No. 10 Vita-Bands	\$ 44.70
Tom Thumb Flats—size No. 2 for 1 doz. 2-inch No. 10 Vita-Bands	49.60
Combination 1M Flats with 12M No. 10 Vita-Bands—size No. 1 (in units of 500 only)	96.80
Combination 1M Flats with 12M No. 10 Vita-Bands—size No. 2 (in units of 500 only)	106.70

This item should be ordered as early as possible to insure prompt delivery from the manufacturer.  
NOTICE. All prices quoted on this page subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.

## Plant Bands (Continued)

### BIRD'S PERENNIAL POTS



These are designed in size and built of sturdiest nutrient materials to do the job for any grower. Firmly stapled, they handle and ship well and in every way promote increased sales.

Height .....	5 in.	5½ in.	6½ in.	9½ in.
Top diameter .....	8 in.	5 in.	6 in.	7 in.
Bottom diameter .....	7 in.	4 in.	4½ in.	5½ in.
Price per 1000 .....	\$65.00	\$47.50	\$58.50	\$69.00
Quantity packed per case	200	200	200	200
Gross weight per case..	65 lbs.	33 lbs.	44 lbs.	71 lbs.

Sold only in units of 200 at the above quoted prices.

### BIRD'S GRO-TAINER



Here is a proven plant tray for growing flower and vegetable plants for the market trade. The demand has been steadily growing for smaller package units, suitable for greenhouse to consumer sales. Try some of these, this season for increased sales.

	Bottom dimensions	Top dimensions	Height	Price per 1000
No. 2 ..	6 in. x 4 in.	7 5/16 in. x 5 5/16 in.	2½ in.	\$44.00
No. 3 ..	7 in. x 5¼ in.	8¾ in. x 6¾ in.	2½ in.	58.00
No. 4 ..	8 in. x 6 in.	9½ in. x 7¾ in.	2½ in.	68.50

Sold only in units of 200 at the above quoted prices.

### WOOD VENEER PLANT BANDS

Used by the largest growers of vegetable plants, perennial plants, Carnations, Snapdragons and Stocks, for transplanting to the greenhouse or out-of-doors. Packed 1000 to a carton.

	Shipping Weight	Per 1000
1¾x1¾x2½	33 lbs.	\$6.50
2 x2 x2	34 lbs.	6.50
2 x2 x2½	35 lbs.	6.60
2¼x2¼x2½	38 lbs.	6.85
2½x2½x2½	40 lbs.	6.95
2 x2 x3	40 lbs.	6.95
2½x2½x3	45 lbs.	7.35
3 x3 x3	55 lbs.	7.60
3 x3 x4	60 lbs.	8.15
4 x4 x3	60 lbs.	8.25
4 x4 x4	65 lbs. Packed 500 to a carton.	9.35

These bands are stapled, and are sold in units of 1000 only. Above quoted prices are subject to change without notice, and are f.o.b. Grand Rapids. We will quote mill direct prices when desired. Orders should be placed two to three weeks before delivery date.

### WOOD LABELS

For Marking Plants	50	100	1000
¾x 4 inches, plain .....	\$0.20	\$0.40	\$3.10
¾x 4 inches, painted .....	.25	.45	3.60
¾x 5 inches, plain .....	.20	.40	3.35
¾x 5 inches, painted .....	.25	.45	3.95
¾x 6 inches, plain .....	.25	.45	3.65
¾x 6 inches, painted .....	.25	.50	4.45
¾x 8 inches, plain .....	.40	.75	5.25
¾x10 inches, plain .....	.40	.75	6.50
¾x12 inches, plain .....	.60	1.00	7.50
¾x3½ inches, wired .....	.25	.45	3.60

The above prices are subject to change without notice and will be postpaid.

### VENEER TRAYS

Size: 11½ inches long, 4¼ inches wide, and 2¼ inches deep. Four will go in an ordinary flat. Come packed K. D. 50 to a bundle. Shipping weight about 10 lbs. per bundle. Price: \$3.50 per hundred. Not prepaid. See page 3 for the postage.

### FERTO-POTS

For earlier, better crops and bigger profits.

**FERTO-POTS** produce earlier crops and more abundant yields, and are extensively used by the most successful gardeners.

**FERTO-POTS** are constructed of manure and fertilizer in the correct proportions for best plant growth and for holding the moisture at roots of the plants. The plants are not removed from the pots when they are set out. Simply set pot and all in the ground and the roots will grow right through the pot which slowly breaks down, furnishing valuable plant food. Roots are not disturbed and plants not checked.



Carton of 100 No. 3 (3 inch), \$3.25.  
Carton of 250 No. 3 (3 inch), \$5.75, not prepaid.

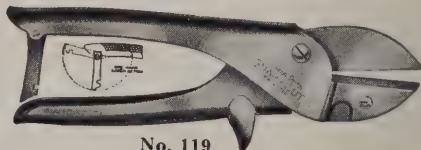
## PRUNING TOOLS



### CLAUSS

Fine cutlery since 1877. Rustless and stainless cutlery steel GARDEN CLUB Flower Holding Shears cuts and holds the flower stem in one easy snip. Protect hands. Avoid thorns.

Only  
\$2.25 each.



No. 119

8-inch Original "Snap Cut" finished in chrome. Price: \$2.95. No. 118 same as above only 6 inches, \$2.19.



"MIRACLE". Revolutionary new basic design makes it the easiest working shear ever. Blades cannot stick shut or spread out of alignment; cuts thinnest or toughest grass or weeds. Blades oil hardened and hollow ground. Red enameled handles. Price: No. 2½ Super Grip, \$2.95. No. 2, \$2.75.

NOTICE. All prices quoted on this page are subject to change without notice, and are f.o.b. Grand Rapids, except wood labels which are postpaid. On other items refer to postal rates on page 3 for mailing cost.



## PRUNING TOOLS—Continued

**TD TRUE TEMPER HEDGE SHEARS.** 9-inch, Dynamic tempered blades. \$4.25 each.

**MIRACLE.** 9-inch blade. Recommended for heavy branch trimming. \$7.75 each.

**K-100.** 9-inch blades. Strongly reinforced handle. \$4.25 each.

**No. 1312 POLE PRUNER.** 12 feet in length—two 6-foot sections. Will trim up to ½-inch cuts. \$7.25 each.

**No. 16 ATKINS POLE PRUNING SAW.** With cast iron shank but without pole. 16 inches in length. \$4.30 each.

**No. 20 ATKINS PRUNING SAW.** 14-inch blade. \$3.40 each.

We offer other types of Atkins saws for shade tree and orchard work. We will forward information as to types and models and quote prices on request.

**SEYMOUR-SMITH No. 149.** This light weight, powerful pruner has genuine anvil cutting action, same as the popular No. 119 shown on page 70. It will cut large limbs and branches with unbelievable ease. 20-inch handle. \$5.95 each.

**No. 28 CARTWRIGHT.** This shear is drop forged of the finest quality cutlery tool steel with seasoned white hickory handles (21 inches long) of sun tanned color, waxed finish for greater resistance, longer life and better grip. \$7.00 each.

**CARTWRIGHT MIDGET.** Same as above, except with 14-inch handles. \$5.25 each.

**WOODMAN'S GRAFTING COMPOUND.** A necessary sealer after pruning, or for damaged bark or limbs. Is also used in graft work. 1 qt., 94c; 1 gal., \$2.49.

**TRI-PLY TREE WRAPS.** Protects against sun-scald, borers, rodents, frost and abrasions. 4 inches wide. 15-ft. roll, 39c; 35-ft. roll, 69c; 125-ft. roll, \$1.25.

## MISCELLANEOUS SUPPLIES

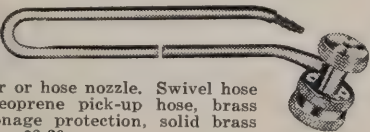


### No. 226 "Little Giant" Sprayer

This new attractive sprayer has an adjustable swivel nozzle that sprays from fog to full stream in any direction on both "in" and "out" strokes, and as high as 20 feet. Handles all spray solutions. Easy to clean. Features the new ZAMAK cap, balanced design, all brass working parts, light weight, ¼-gal. Mason jar included. Price, \$4.95.

### No. 246 RediMix Garden Feeder

Attaches between faucet and garden hose to siphon chemical out of bucket on to a lawn through any type of sprinkler or hose nozzle. Swivel hose coupling, 36-inch neoprene pick-up hose, brass strainer, back siphonage protection, solid brass working parts. Price, \$2.29.



### Tricon Nozzle and Fertilizer Unit

Model 500 fertilizer unit automatically gives the proper ratio of ½ ounce of fertilizer to 1 gallon of water, at all times, regardless of water pressure or amount of fertilizer in jar. The Tricon all-purpose nozzle features trigger control and a patented reversible cap. With the trigger control there is no running back to shut off the water. Reversible cap quickly gives you any kind of stream you need. Easily changed, and will do all your jobs. No need to buy additional nozzles. An efficient automatic unit, which distributes soluble fertilizers evenly and easily. Price, \$5.95.



### No. 244 RediMix Lawnmaster

Attaches to garden hose to spray 15 gallons on lawn, shrubs and trees (up to 30 feet high). Dial-a-Spray control valve, light weight, new ZAMAK cap. Price, \$2.99.

### Aluminum Grass Stop

Used around trees, keeps gardens and walks clear of spreading grass. Eliminates trimming, rust-proof, lasts indefinitely. Easy to install. 40-foot coils in 4-inch and 6-inch widths. Prices quoted as requested.

### Aluminum Trellis

Complete with fasteners. 24 inches wide by 10 feet high. Adds to beauty of climbing Roses and other climbing vines. Prices quoted as requested.

### Stop Grass

The chemical grass trimmer. Grass stays short and beautifully green—grows slowly—it needs no trimming for several months. Use in 6- to 12-inch strips on grass edges where mowers won't work. Also keeps down grass in waste areas.

1½-oz. size (treats 400 sq. ft.) .....\$1.00  
4-oz. size (treats 1100 sq. ft.) ..... 2.25

### Aluminum Garden Wire

In 25-foot rolls. Useful in protection of garden plants and flowers; also used for special trellis work, for climbers. Prices will be quoted on request.

### H-265 Fan Spray

This accessory was designed especially for watering plant roots without wetting the foliage or washing out top soil from roots. Protects many flowers from damaging fungus diseases that develop when the leaves are wet. Made of wrought brass in a bright dipped finish. Mailing weight 4 ozs. Price, 75c.



### H-262 Heavy Duty Fan Spray

Heavy forged brass body and precision pierced front plate. Price, \$1.50 each.

### H-226 Round Flower Sprinkler

This sprinkler with its large diameter (4 in.) head delivers a volume of water in a fine spray for distances up to 13 ft. There is no better hand sprinkler for porous, sandy soil that needs frequent, heavy watering. It makes an excellent outdoor shower for the children. Made of wrought brass, satin finished and lacquered. Price, \$1.00.



Mailing weight 6 ozs.

NOTICE. All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids. Refer to postal rates on page 3 for mailing cost.

## Miscellaneous Supplies (Continued)

**H-334 Two Arm Adjustable Sprinkler**

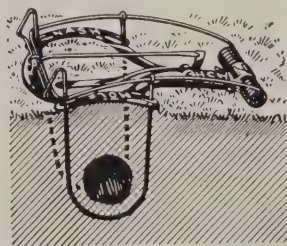
Two-arm adjustable sprinkler. It is the most versatile of all sprinklers because it can be adjusted for water coverage of large lawns as well as small, narrow plots, from a fine mist to a heavy rain. Nozzles are self locking and may be adjusted to any angle. Price, \$5.95.

**SEYMOUR SEEDKASTER**

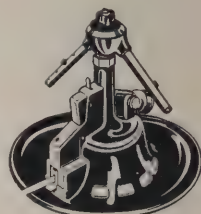
This new improved Seymour Seedkaster is one of the best seeders in its class. The body is made of one piece deep drawn steel or weld, gears are in dust proof chamber which are permanently lubricated and the entire unit is designed for perfection in seed and fertilizer broadcasting. Price, \$7.85.

**Nash Choker Loop Mole Trap**

The only trap that always catches the mole in all kinds of ground. Price, \$3.95.

**RAIN KING SPRINKLERS****Rain King Sprinkler Model K-20**

Traveling Sprinkler. Water any course, straight, curved or around corners up to 100 feet. Will sprinkle strip 5 to 50 feet wide as it travels, and shuts off automatically. Price quoted as requested.

**Rain King Sprinkler Model "K"**

It's automatic, can be set to sprinkle any size circle from 5 feet to 50 feet by adjustable top button. Price quoted as requested.

**Hole-in-One-Planting Tool**

An efficiently designed planting tool for bulb planting in small gardens, large estates, or commercial nurseries. In one easy operation, holes are shaped up for insertion of bulbs. Mailing weight 1 lb. Price, 95c.



**stikit wikit** the modern fencing  
REG. U.S. PAT. OFF.

**PROTECTS AND BEAUTIFIES**

21" High, 12" Wide,  
1/4" steel enameled green

**\$2.40**  
THE DOZ.

Mailing weight 19 lbs.  
In cartons of two dozen  
(makes 24 feet of fence)



Easy to hammer  
into hard ground

**Garden Books**

Read Roy E. Biles'  
"GARDEN MAGIC"

320 pages, 17 full color illustrations, hundreds of line drawings; practical, durable binding and gilt stamped; size 8x10 1/4 inches.

**\$3.95, Postpaid**

ALSO the MODERN FAMILY GARDEN BOOK.  
160 pages, fully illustrated; size 7x10 1/2 inches.

**\$1.75, Postpaid**

Plus 3% Michigan Sales Tax.

**The Jiffy Planting Tool**

The Jiffy Planter, which one can use in a standing position, is a sturdy, practical addition to one's garden tools. Built to give a lifetime of service.

May be used in transplanting plants as well as bulb planting. Operation is simple and efficient. Price, \$3.25 each.

**TRAIN-ETTS**

Ideal support for SWEET PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES. Hung in 5 minutes. Doesn't rot like string, nor burn tendrils like wire.

No. 2 size,  
60x96 inches.  
**85c postpaid.**

**Agri-Tox Respirator**

U.S.D.A. accepted for protection against demeton (systox), parathion, aldrin, dieldrin, chlordane, EPN, nicotine, Tepp, HETP and phosdrin. Fits face snugly, adjustable elastic headbands, low breathing resistance, and can be worn with goggles.

Price complete with two No. 11A Cartridges and six Part R490 Filters, \$5.25 each.

No. 11A Cartridges, box of 4, \$2.00 per box.

Part R490 Filters, box of 10, \$1.00 per box.

NOTICE. All prices quoted on this page are subject to change without notice, and are f. o. b. Grand Rapids, except Garden books and Train-etts shown above, which are postpaid. On other items refer to postal rates on page 3 for mailing cost.



# Germāco Hotkaps

or Plant Protectors

25 garden size package complete with setter. \$0.95  
100 package complete .. 3.90  
250 package complete..\$ 7.15  
1000 carton, per 1000... 19.75  
5000 lots, per 1000 ..... 19.65

Shipped prepaid in Michigan. We do not split packages of Hotcap.

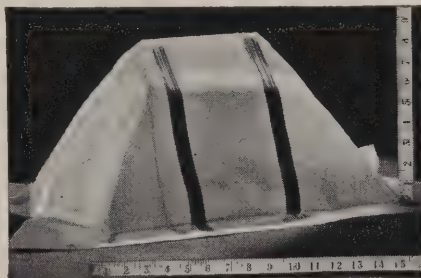
## SETTERS

Fibreboard setter for Hotkaps. 20c each, postpaid.

Steel setter for Hotkaps. \$1.95 each, not postpaid. Wt., 4 lbs.

Steel setter for Hot Tents. \$2.95 each, not postpaid. Wt., 4 lbs.

Steel setter for Super Hot Tents. \$3.25 each, not postpaid. Mailing weight 6 lbs.



Hot Tents



## WEATHER VANES

Vanes illustrated are all metal and finished in weather-proof black to silhouette against the sky. Size: 40 in. high, 30 in. wide. Includes direction letters and Universal Base. \$28.75 each.

Other clever new designs available in smaller size. \$13.50 each.



CABALLERO



THE COUNTRY DOCTOR

Clever  
WHITEHALL  
MARKERS

for  
EVERY  
HOME



Our WHITEHALL selection includes unusual designs for every home, lodge or summer cottage. Signs that attach to tree, post or side of house—lawn signs and wall type markers for any flat surface. Signs are cast aluminum with leadcoated nameplate and hand-wrought iron bar. Swedish iron finish highlights artistic ornaments. Lettering 30c extra per character or numeral. We have many new Whitehall house signs in our display, including both large and small sizes.

Prices from \$7.95.



"Spinning Wheel"

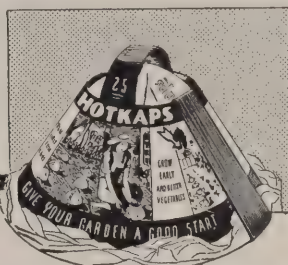
\$7.95 and up.



"Cardinal" \$9.95.  
tin color \$14.50

YOUR NAME IN A JIFFY  
WITH REFLECTING LETTERS

Characters are 150 times brighter than paint—and reflect at night when light shines on them. 30c ea.



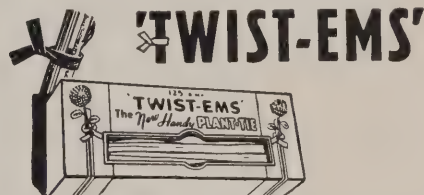
## HOT TENTS

These are large, strong, reinforced with wire to give the user a larger area to cover individual plants. Size 14x11 in. at the base, 8½ in. high. Weight 35 lbs. to a carton of 500. 500 to a carton .....\$33.75 per 1000

## SUPER HOT TENTS

Extra strong, reinforced with wire, large in size, 18x14 in. at base, 12 in. high. Weight 60 lbs. to a carton. 500 to a carton .....\$51.50 per 1000

Hot Tents and Super Hot Tents cannot be sent by mail on account of size, and are not prepaid. Available only in cartons of 500.



Home garden package for tying up anything you grow. New package of 50. Package of 50 Twist-ems, 8 in. ..\$0.15  
Package of 100 Twist-ems, 8 in. .. .29  
Package of 100 Twist-ems, 16 in. .. .57

As illustrated above.

For commercial growers, used in tying Carrots, Beets, Onions, Celery and other produce, for market. "A twist of the bunch does the trick."

Postpaid up to 10,000

## Bundle

	of 250	per 1000	per 2500	per 5000	per 10,000
7 in. ..	\$0.40	\$1.55	\$1.50	\$1.45	\$1.40
8 in. ..	.50	1.75	1.70	1.65	1.55
12 in. ..	.75	2.70	2.65	2.60	2.50
16 in. ..	1.00	3.45	3.40	3.35	3.25

Not Prepaid—Per 25,000

7 in. ....	\$1.30 per 1000
8 in. ....	1.45 per 1000
12 in. ....	2.30 per 1000
16 in. ....	2.90 per 1000



CUT OFF  
AS NEEDED



250 continuous feet on plastic reel. \$1.00, postpaid.  
NOTICE. All prices quoted on this page subject to change without notice.

Postage is Extra—Subject to the 3% Michigan State Sales Tax.

NOTICE. All prices quoted on this page subject to change without notice.

# PLANTERS GUIDE

A vital question that is frequently asked. How large is an acre of land? Let's answer it right here.

5 yards by 968 yards.  
4840 square yards.  
60 feet by 726 feet.  
110 feet by 396 feet.

300 feet by 145.2 feet.  
43,560 square feet.  
From the above figures, you can figure any size piece of land.

Variety	Seed for 50 Feet	Seed for 1 Acre Lb.	Rows Apart Feet	Plants Apart in Rows Inches	Planting Depth Inches	Days to Yield
Asparagus	1/2 oz. 30 plants	.....	2 1/2	20	6	2 yrs.
Beans, Bush	4 ozs.	60 to 75	2 to 2 1/2	3 to 4	1 1/2	50 to 70
Beans, Pole	4 ozs.	30 to 35	3 to 4	9 (or hills)	1 1/2	65 to 80
Lima Beans, Bush	4 ozs.	30 to 50	2 to 2 1/2	3 to 4	1 1/2	65 to 75
Lima Beans, Pole	4 ozs.	30 to 40	3 to 4	9 (or hills)	1 1/2	80 to 90
Beet	1/2 oz.	4 to 6	1 1/2 to 2	3 to 4	1/2	60 to 75
Swiss Chard	1/2 oz.	.....	2	15	1/2	50 and on
Broccoli	1 pkt.	1/4	2	18	1/4	70 to 80
Brussels Sprouts	1 pkt.	1/4	2	18	1/4	70 and on
Cabbage, Early	1 pkt.	1/4	2	12	1/4	65 to 75
Cabbage, Late	1 pkt.	1/4	2	18	1/4	80 to 100
Chinese Cabbage	1 pkt.	2	2	12	1/4	75 to 85
Carrot	1 pkt.	2 to 3	1 1/2	3	1/4	60 to 75
Cauliflower	1 pkt.	1/4	2	18	1/4	55 to 65
Celeriac	1 pkt.	1/4	2	4	1/8	90 to 120
Celery	1 pkt.	1/4	2 to 3	5	1/8	120 to 150
Collards	1 pkt.	.....	2 1/2	24	1/4	90 and on
Sweet Corn, Early	1 oz.	8 to 10	2 1/2	9	1	70 to 80
Corn, Main Crop	1 oz.	8 to 10	3	12	1	80 to 95
Cucumber	1 pkt.	2	4	24	3/4	60 to 70
Eggplant	1 pkt.	1/4	3	30	1/2	70 to 85
Endive	1 pkt.	4 to 5	1 1/2	9	1/4	70 to 80
Kale	1 pkt.	4 to 5	2 1/2	24	1/4	70 to 80
Kohl-rabi	1 pkt.	4 to 5	2	8	1/4	55 to 65
Leek	1 pkt.	3 to 4	1 1/2	6	.....	120 to 150
Lettuce, Leaf	1 pkt.	3	2	12	1/4	45 to 50
Lettuce, Head	1 pkt.	3	2	12	1/4	50 to 70
Muskmelon	1 pkt.	3 to 4	5	48	1	80 to 100
Mustard	1 pkt.	4	2	9	1/4	60 to 75
Okra	1/2 oz.	8	3	15	1	50 to 60
Onion, Seed	1 pkt.	3 to 4	1 1/2	3 to 4	1/2	90 to 100
Parsley	1 pkt.	4	1 1/2	4	1/4	85 to 100
Parsnip	1 pkt.	4	1 1/2	4	1/2	80 to 100
Peas	1/2 lb.	90 to 180	2 to 3	1 to 2	1	60 to 80
Pepper	1 pkt.	1/4	2 1/2	24	.....	65 to 80
Pumpkin	.....	3 to 4	8	60	1	110 to 130
Radish	1 pkt.	10 to 12	1	1 to 2	1/2	25 and on
Rhubarb	10 plants	2 to 3 for plants	4	48	1/4	2 to 3 yrs.
Salsify	1 pkt.	.....	1 1/2	2	1/4	140 to 180
Spinach	1 pkt.	15 to 25	1 1/2	6	3/4	40 to 50
Spinach, N. Z.	1 pkt.	.....	3	20	1	70 to 80
Squash, Bush	1 pkt.	6	4	36	1	55 to 65
Squash, Vining	1 pkt.	4	6	60	1	65 to 120
Tomato	1 pkt.	1/4	3 to 4	36	1/2	75 to 90
Turnip	1 pkt.	2 to 3	1 1/2	4 to 6	1/4	50 to 80
Rutabaga	1 pkt.	1 to 2	2	6	1/4	80 to 90
Watermelon	.....	3 to 4	8	96	3/4	75 to 95

## NUMBER OF PLANTS TO THE ACRE AT GIVEN DISTANCES

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840
12 x 3 in.	174,240	30 x 1 in.	209,088	42 x 12 in.	12,446
12 x 12 in.	43,560	30 x 6 in.	34,848	42 x 24 in.	6,223
16 x 1 in.	392,040	30 x 12 in.	17,424	42 x 36 in.	4,148
18 x 1 in.	348,480	30 x 16 in.	13,068	48 x 12 in.	10,890
18 x 3 in.	116,160	30 x 20 in.	10,454	48 x 18 in.	7,790
18 x 12 in.	29,040	30 x 24 in.	8,712	48 x 24 in.	5,445
18 x 18 in.	19,360	30 x 30 in.	6,970	48 x 30 in.	4,356
20 x 1 in.	313,635	36 x 3 in.	58,080	48 x 36 in.	3,630
20 x 20 in.	15,681	36 x 12 in.	14,520	48 x 48 in.	2,723
24 x 1 in.	261,360	36 x 18 in.	9,680	60 x 36 in.	2,901
24 x 18 in.	15,520	36 x 24 in.	7,260	60 x 48 in.	2,178

Approximate number of feet of row per acre at given distances:

Distance between rows:	18 inches	24 inches	30 inches	36 inches	42 inches	48 inches
Feet of row:	29,010	21,758	17,427	14,526	12,439	10,853



**PLEASE USE THIS ORDER SHEET**

# GRAND RAPIDS GROWERS, Inc.

Grand Rapids, Michigan

NAME ..... Date ..... 19.....

Write very plainly

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## ORTHO- POLKA ZINNIA

Here we present an important advance in Zinnias. Peppermint Stick is a good variety, but there's a great improvement available this year—one of those fortunate forward steps that changes the aspect of something already well liked into something really superior. This superior flower is Ortho-Polka Zinnia.

Well over 70% are attractively striped, dotted or mottled in contrasting colors but Ortho-Polka blooms are BIG, running over 4 inches in diameter and with this doubling in size comes a distinct difference in the form as well. The colors are varied, including combinations of pink and white, rose and white, lavender and white, purple and white, scarlet and yellow, orange and yellow, red and orange, as well as some solidly colored flowers of each hue. They are sturdy, well foliaged plants, vigorous and resistant to heat and drought, growing about 3 feet tall and making good cutting length stems.

$\frac{1}{8}$  oz., 60c;  $\frac{1}{4}$  oz., \$1.00; 1 oz., \$3.00; 2 ozs., \$5.50.

*Red Satin*

**F<sub>1</sub> HYBRID PETUNIA**

**A New F<sub>1</sub> Hybrid Multiflora  
All-America Selections Medal  
Winner for 1957**

Red Satin displays incredibly vivid and shining scarlet-red flowers. Heat and sunshine fail to fade the color. The plants attain a 10- to 12-inch, globe-shaped form and maintain that size and character right through the season. The persistent neatness of the plants makes a perfect vehicle for the 2½- to 3-inch blooms, and you can expect 30 blooms open at one time on each plant, holding steadily through the summer until frost. It is suited for low beds to create a bright band of scarlet for borders and edgings, as well as blooming pot plants. See page 50.

$\frac{1}{2}$  tr. pkt., 90c; 1 tr. pkt., \$1.65;  $\frac{1}{128}$  oz., \$3.00;  $\frac{1}{64}$  oz., \$5.50;  $\frac{1}{32}$  oz., \$10.00;  $\frac{1}{16}$  oz., \$18.00;  $\frac{1}{8}$  oz., \$30.00, postpaid.







## CRACKER JACK MARIGOLD

This new Marigold is a sure cure for the flaws that have plagued gardeners in growing Sunset Giants. These are grown because they made huge flowers but to do this they took a very long growing season. Cracker Jack is weeks earlier, and turns out uniformly large, double flowers measuring 4 to 5 inches across. Cracker Jack plants are compact and sturdy, growing only two-thirds the height of Sunset Giants, and the flowers are held in plain view.

¼ oz., 65c; 1 oz., \$1.75; 4 ozs., \$6.50.

**GRAND RAPIDS GROWERS, Inc.**  
401-433 Ionia Ave., S. W., Grand Rapids, Mich.

## New Dwarf French

*Petite*

## MARIGOLDS

1958 All-America Winners

- Petite Harmony      ● Petite Gold
- Petite Orange

These three new Marigolds are All-America Winners of Bronze Medal for 1958 in a new class of extra dwarf plants. The Petite strain is distinctly different from any other class of Marigolds, being especially bred to remain dwarf under conditions where most Marigolds tend to grow rangy and wild, with late flowering tendencies. The Petite strain produces an abundance of very early blooms with long blooming period. Plant is compact, 6 inches tall, 10 inches wide with flowers borne in great profusion. Color of the three is indicated by name while the Harmony flower being a beautiful contrasting bi-color is in the Harmony class.

**PETITE YELLOW** does not have an award as it was not ready at the time of trials, but it is of the same type and completes the color range. Limited supply.

¼ oz., \$1.75; 1 oz., \$6.00; 4 ozs., \$11.00.

Postpaid

